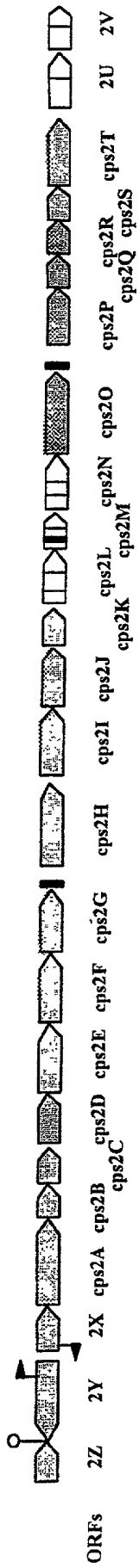
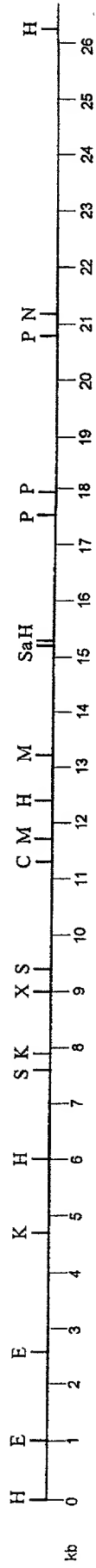


A



B



C

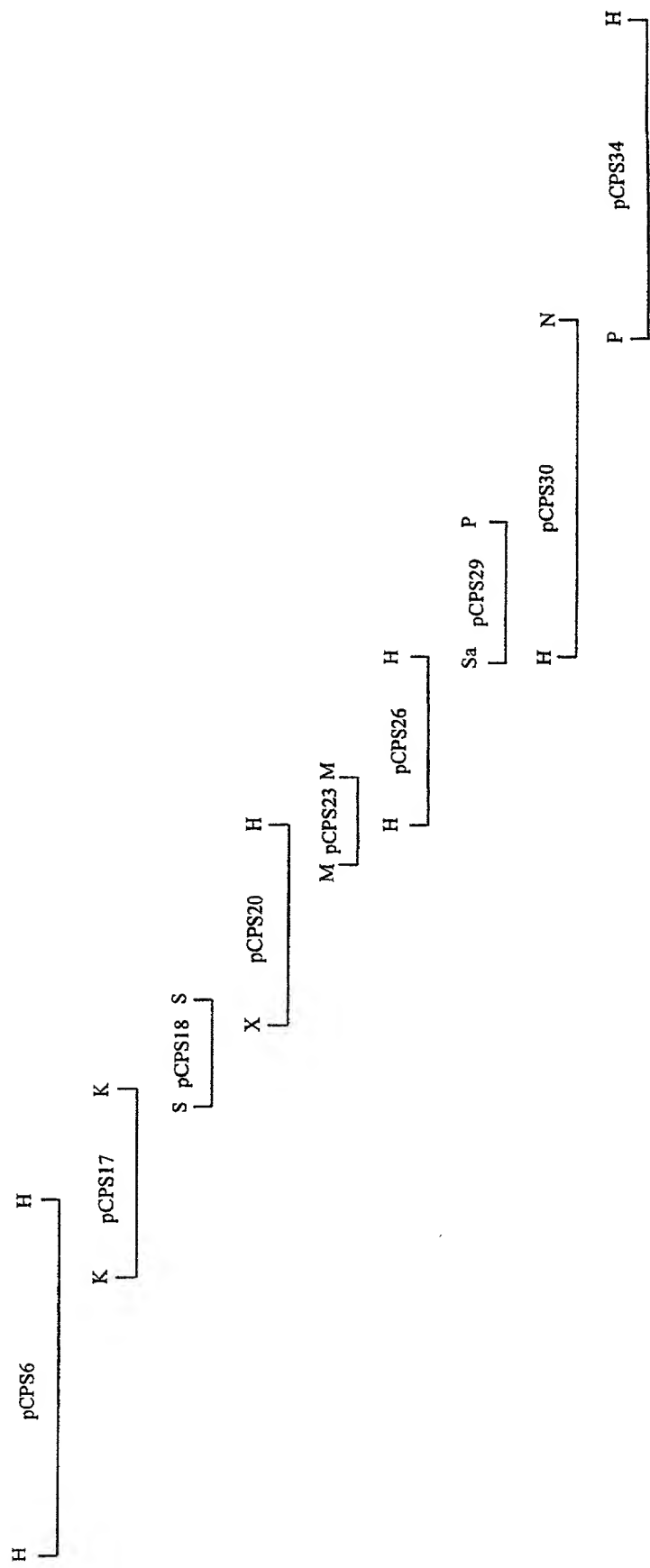


Fig. 1

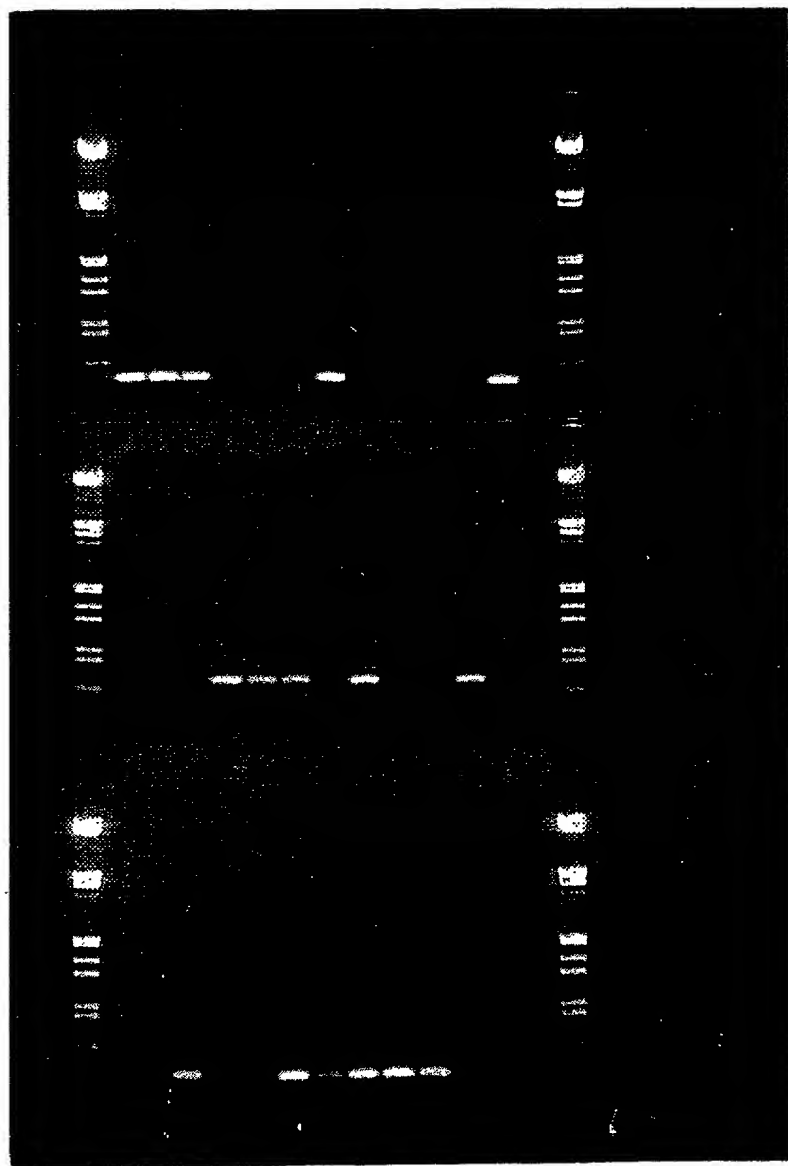


Fig. 2

3/59

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 CTAGGGATAT GTATATCGAA GAGCATCCGA ATGTCAATAT CCATTTGATA
 GATAGTTTGT CAGCCAGTGG GGAAATGGAT TTACTTGATAC ACCAAATCAA TCGCTTAATT
 AGTGCAGGAT TAGATTTTCC ACAAGTAGTA GAAGCGATAA CTCACTATCG
 GGAACACAGT AAGCTCCTCT TTGTTTTAGC GAAAGTTGAT AATCTTGTTA AGAATGGAAG
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 TTGGTGAGGC AAGTGCTGAA GGAAAATTAG AGTTGCTTCA AAAGGCGCGT GGTCATAAGA
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 GGAGGAAATC AATTCTGCCA ATCCCTCTTG CTGGTGATAG TAGTTGAATA
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 CTATCCTCTA AGATATAATA ACCGCTTTTT TCGACAGCGT AGATCTTATT TTGGTATTTT
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 TTTTATAGA CTATGTTACT AGCTAGTATA TAGAAAAAAT TGAAGAAAGA CAATATATGA
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 CCATGTATCG CTATAACATC CTAGATTTCC GGTATTTAAA CTATATTGTG
 ACGCTTTTGC TAGTAGGAGT GGCAGTATTG GCTGGATTAT TGATGTGGCG TAAGAAAGCG
 CGCATATTTA CAGCGCTCTT ACTTGTTTTT TCACTGGTCA TCACGTCTGT

Fig. 3

DNA Serotype 2

4/59

TGGGATCTAT GGAATGCAAG AAGTTGTAAA ATTTTCAACA CGACTAAATT CAAATTCGAC
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 CGGACGTTTCG TCAGCTTACT AGTATCCTTG CTCCAGCCGA ATACGACCAA GATAACATCA
 CCGCTTTTATT GGATGACATA TCCAAAATGG AATCTACTCA ACTAGCAACT
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 CTTTTCTTCA AAAGTGAAAA AAATATATAG TTCAAAGTG ACTCAGACTG TTGAAACAGC
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 GATCACAAC TATATGATG GAAATTAACC AAGATAGTCT GGAGCAATCA AAGGCAGCGA
 TTCAGTCCGT ACTTGTTGAA AAATAAGAT TTAGGAGAA AATATGAACA
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 GTTGAGGTCA CCAAGGTAAG CGATGTGACG ACACTTGAAG AAGCAGTCCC AGCGGAAGAA
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 GAACGAGCAA AAGAATTTAA AAAACGTACT CGATATTTTT TAGAGCAGGA
 TTTAGTACAT TGTGTTGCTA GCGATATGCA TAATTTATAT AGTAGACCTC CGTTTATGAG
 GGAGGCGTAT CAGCTTGTA AAAAAAGAGT TGGTGAGGAT AGAGCGAAGG

Fig. 3 cont.

5/59

CTTTGTTCAG GAAAAATCCT TTGTTGATAT TGAAAAATCA AGTACAGTAA CCTCATAGAA
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 TTGACGAAGA GGCTCTTGTC ATTGGTATGG TCGGTCGAGT CAATGCGTGG

Fig. 3 cont.

6/59

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 GGCACCTCTA TAAACTCCCA AAATTGCGAA TTTGGAGTTA CGAAAGCCTT
 GTTAAATCAA CATTTTAAAT TTTAGAAAAT TAGTTTTAG AGCTCCCCTA AAATAGAAGA
 TAACAGAAGG GAGCCTTCAA AAACCTTATT TTTAATTGGA TTGTAGAAAA
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 TGGGACATCA CACTGTTTTT GGTAAACCAA ATGTAAGGAT AGAACATCAT AATGATTTGA
 AATTTGCACA TTATCGAGCT ATTAGCCAAG AGCAATTAAT TTATAAAACA
 ATTTGTTACA CTATTCGCGA TATTGCTACT ATGGAGAACA ATATCGAAAC AGCTCAAAGA
 ACAAATCAGA TGGCGCTCAT TGAATCTGGC GTGGATATGT GGGAAACGGC
 GAGAGAAGCC TCTTATTCAG GTTATGATTG TAATGTTATA CATGCACCAA TTGATTTAAG
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Fig. 3. cont.

7/59

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 TATTAACAAA CAACTGCAAA CATAAATTGG CAGGAATAGA GTTTTGAGTT GCTATTAATT
 TGGTAGAGCA TATGTTCTAT AGGTGGCAAG ATAAAGATAG TATTTTTTAC
 ATGATGATTT TTATGATAGC AAAGCAAGTT ACGGCATAAA AGGAATTAGA GGATGGAAAA
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 GTTTAGATAG CATTATTTCC CAATCGTATA CTAATCTAGA GATTCTTTTG ATAGATGACG
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 TAATAATTTG TTTAAATTT TTTTAAATAC TTTAATTAGG GAAGAAAAA ATAATGATTA
 ACATTTCTAT CATCGTCCCA ATTTACAATG TTGAACAATA TCTATCCAAG
 TGTATAAATA GCATTGTAAA TCAGACCTAC AAACATATAG AGATTCTTCT GGTGAATGAC
 GGTAGTACGG ATAATTCGGA AGAAATTTGT TTAGCATATG CGAAGAAAGA
 TAGTCGCATT CGTTATTTTA AAAAAGAGAA CGGCGGGCTA TCAGATGCCG GTAATTATGG
 CATAAGTCGC GCCAAGGGTG ACTACTTAGC TTTTATAGAC TCAGATGATT
 TTATTCATTC GGAGTTCATC CAACGTTTAC ACGAAGCAAT TGAGAGAGAG AATGCCCTTG
 TGGCAGTTGC TGGTTATGAT AGGGTAGATG CTTCGGGGCA TTTCTTAACA
 GCAGAGCCGC TTCCTACAAA TCAGGCTGTT CTGAGCGGCA GGAATGTTTG TAAAAAGCTG
 CTAGAGGCGG ATGGTCATCG CTTTGTGGTG GCCTGGAATA AACTCTATAA
 AAAAGAACTA TTTGAAGATT TTCGATTTGA AAAGGGTAAG ATTCATGAAG ATGAATACTT
 CACTTATCGC TTGCTCTATG AGTTAGAAAA AGTTGCAATA GTTAAGGAGT
 GCTTGACTA TTATGTTGAC CGAGAAAAATA GTATCATAAC TTCTAGTATG ACTGACCATC
 GCTTCCATTG CTTACTGGAA TTTCAAAATG AACGAATGGA CTTCTATGAA
 AGTAGAGGAG ATAAAGAGCT CTTACTAGAG TGTTATCGTT CATTTTTAGC CTTTGCTGTT
 TTGTTTTTAG GCAAATATAA TCATTGGTTG AGCAAACAGC AAAAGAAGCT
 TCTCCAAACG CTATTTAGAA TTGTATATAA ACAATTGAAG CAAAATAAGC GACTTGCTTT
 ACTAATGAAT GCTTATTATT TGGTAGGGTG TCTTCATCTT AATTTTAGTG
 TCTTTCTGAA AACGGGGAAA GATAAAATTC AAGAAAGATT GAGAAGAAGT GAAAGTAGTA
 CTCGGTAAGA ATGTTGTAAT AAATGGTTGA AAGAAAAGGG GATTAAAATG
 AATCCAACAA ATAGTAGAAT AGCACTCTTT GATACGATTA AATGTATCAT GGTACTTTGT
 GTTATTTTTA CACATCTGGA TTGGTCTGTT GAGCAGCGTC AATGGTTTAT
 CTTTCCGAT TTCGTTGACA TGGCTGTTCC AATTTTTCTG TTGCTTTCTG CCTATTTTCTG
 AACGAATAAG TGAATACAA AACAAGAGAC GCTAAAGCTC AAGTTCAGCA
 GTGGTATAAA AGAAAGTATA AACATGCTTT GTCTCTATGC TATCGTGATG GCTGTTAATG
 TTTTATTGAG CTATTCGAGA ACCATCTGAT AGGAGTAAAG CCTTTTCAG
 GTTCTTCATC GCTCCGTTCA TTTGTCCTGT GGCTACTTTC TGGAGAATCG GGTCCAGGGA
 GTTGGGAGTT ACTATGTTCC GTTGTTGATT CAGGTAGTTT TTTTATTACC
 AATTTTGTAT GTTCTTTTCG AGAAAAATAA ATGGTTGGGC TTGCTTACTT GTTTTTTAGT
 AAACTTTTCA GTGGATGCCA TATTTGCTAA CATGGCTGAA CACGGCATAT
 ATATATAGAC TAATATCACT TCGTTATCTT TTTGTTCTAG GGCTTGGTTT TTTCTTTCAA
 AGCAGGATGT GCGTTCCAAG GTAGATACTT TCATTGCGAC CCTATTTGGG
 ATTATTGGAG CAATTCTGAT TTTTGTGAAT CATTCTATAG AGCCCTTCTC CTGGTTTTAT
 GGTGGAAGT CTACTTCCTT TCTATGCGTC CCATTTGCGT ATGCTATGCT
 ATTTTTTATG ATAAAGTATG GACAGAAGAT TCCAGCAATA CTGTTGTCAA AATTGGGAGT
 TGCTTCTTAT CATATCTACT TGACCCAGAT GCTGTATTTT TCAGTAGTCG

Fig. 3 cont.

8/59

CACCATTTTT AGCAGTGCAA TTTAAGGTAT CTTGTTGAA TTTGTGGAAC GGCTTGTTTA
 CCTTTCTAAT TTGCCTGTTT GGTGGCTATA TTTTCTACAA AGTGGATCTG
 TTTATGAGAG TACGTGGAAA ACGATAATGA CTCATTTTCAG ATTAGCAGAT GCCATTTTCGT
 TTATTAGCAG ATTCGCATGT TAATATTCCG ACAAAGAAAT TCAAATAGGT
 TGACGAGAGA GGAGTGGTAT CTGTTTCTAA ACCCCAGTAT CCCCTTTTAT TTTCAAAGCT
 ATATTTATTA ACTGAACAAG GAGAATTTTT AAGAGAACTG TTTGTTTAAT
 CCCAGCACGA TCTGGTTCTGA AAGGCTTACC GAATAAAAAC ATGCTATTTT TGGACGGGAA
 ACCCATGATT TTTACACAGA TTGATGTGGC AATTGAATCA GGTGTTTTTG
 AGAAAGAAGA CATCTATGTC AGTACGGATT CAGAAATGTA TAAGGGGGGC ACCTCTATAA
 ATTCCCAAAA TTGCGAATTT GGAGTTACGA AAGCCTTGTT AAATCAACAT
 CTTAAATTTT AGAAAATTAG TTTTATAGAG TCCCCAAGGG GATTTGCGAG ACAAGAGGCA
 TCAATGTATT GTTAAGACCC AAAGAACTAT CTACTTATCA TACTCCATCG
 AATGAAGTCA GTACGCACTT TTTTACGAAT CTGGATTTTA TGAAGATTGT ATATTTGTTT
 TTCTGCAAGT CACCTCACCG TTACGGACTG GCGAACAGAT AAAAGAAGCC
 ATGAATATGT ACTTACAGGG GGAATCAGAA AATGTTTTGC ATTTCAATGA TGAAGGGCAA
 GAAAGAGTGA ATCAGTACAT TATCGAAGCT GTACAGGGGT TATAAAAAGG
 GGTACTTAT CCTTAAAGTC TGTATGTAGA AGGAGAAAAA TTGAGACGAA TTTATATTTG
 CCATACGATG TATCAGATCC TGATTTCCCTT GTTAAAGATG GACGTTGAGA
 GAGATAGTTT GATGTCCGTT GATATCATCG GGCATTTTCC AGATGTCAGG GAGCAACTGC
 AGCAGCATGT TCATCTAATC GAGGGAGACG GAGCGTTCAT TTGATCTATA
 TTCTTTGATA GCTAGATCAA AAACAAAAGA ACGCCTTTCC TTGTTACAGA GCTATGACGA
 GGTGATCAT TTTCAAGATC ACCGTCAAGT CCGTCATTTT TTAAATAAAC
 ATCGGATTCC CTATTCTCTT TTGGAGGATG GTTATAATTT TTTCAAGGAT AAAAGAGTGT
 GCGATTTGGA GTCAATTCAA TCATCTGTCT GGAAAAGACT CTTTTATCAA
 TGGTATTTTA AACCAACATA TTTGATTGGT TCAAGTCTCT ATTTGCAATC CATTGAGGTC
 AATGATCTGT CGCTCGTACA ATTTGACTAG GCTTATAAAC CCTTTGTAGA
 AGTTCCGAGA AAGCAATTAT TTGATCAAGC ATCGCCAGAG AAGGTGCAAG CGCTGCTGCA
 GATATTTGGA GCAAGGGCGA TAGTAGCGGA TGAAGAGTCT TCTCAAAAAC
 GATTGCTATT ATTGACCCAG CCCTTGCTCT GGGATTATCA TGTGACCGAA GAGAGTTGTT
 GGAGATTTAT GTAGCAGGTC TTGCCCCCTTA TCGGGAAGAC TATACAATCT
 ACATAAAACC GCACCCACGA GATGGGGTTG ATTATTTCATT TCTGGGTAAG GCTGTGGTGC
 TTCTGCCTCA AGGTATTCCG TTTGAGTTGT TCGAAATGGC AGGTAATATC
 CGTTTTGATA TCGGTATGAC CTATAGTTCT TCTGCTTTAG ATTTTTTAAA TTGTTTTGAA
 GAGAAAGTGT ATTTAAAGGA CACTTTTCCT CTTCTTTCAA AAAATGATAT
 TTTGCGTGAG GGGATAGAAT AGGAGGATTC ATGTCTAAAA AATCAATAGT TGTCTCAGGT
 CTCGTCTATA CGATTGGAAC CATCCTCGTT CAGGGATTAG CCTTCATTAC
 CCTCCCCATC TATACTCGTG GGGCTAGTTG GTCTCTTTAT CCGTCTACAG TTAGGTGGGG
 TTCGTGGGTG GGGCTAGTTG CACTTCCGCG AGAAATTTGA TGATTTCGTA TCCACCTTGA
 CTTTTGGCCC GGGATGGGTA CACTTCCGCG TTTTGGGCT ATCTTTTCTC
 TGGTCTCTTC TATCGCTTTC TTTTACCAA TTTTGGGCT ATCTTTTCTC
 CTCAGTCAGC CCCTATCGCT CCTATTTGGT TTGCCTGATT GGGTCGTTCC GCTTTACTTT
 TTGCAAAGTT TTATGAGTGT TGTGCAAGGA TTTTTCACGA CCTATTTAGT
 GCAGCGGCAG CAGTCCATGT GGAATTTACT CCTATCGGTA CTGAGCGCTG TTATCAACAC
 TGCTTTATCT TTATTTCTCA TCTTTTCGAT GGAGAATGAT TTCATCGCTC
 GTGTAATGGC AAACTCGGCA ACGACTGGTG TTTTGGCTTG TGTGTCCTTG TTGTTTTTCT
 ATAAGAAGAT TGGGCTTCAT TTTTCAAGG ACTATCTTCG GTATGGTTTA
 AGTATATCGA TTCCTCTTAT TTTTCATGGA TTAGGTCATA ATGTACTCAA TCAATTTGAC
 AGAATCATGC TTCGCAAGAT GCTAACACTG TCAGATGTAG CCCTATACAG
 TTTTCGGCTAC ACACCTGCGT CTATCTTACA AATTGTGTTT TCGAGCTTGA ATACGGTATG
 GTGTCCGTGG TATTTTGAGA AAAAGAGAGG TGCAGATAAA GATTTGCTCA
 GTTATGTCCG TTAATATCTG GCGATTGGCC TGTGTTGTGAC TTTTGGATTT CTAACAATTT
 ACCCTGAATT AGCGATGTTG TTAGGTGGAT CTGAGTATCG TTTTCAATATG
 GGATTTATTC CCATGATTAT TGTGCGGGTG TTCTTTGTAT TTCTTTATAG TTTTCCAGCC
 AATATCCAGT TTTATAGTGG AAATACAAAG TTTTGGCCAA TTGGTACTTT
 TATAGCAGGT GTACTAAATA TTTCCGTCCA CTTTGTGTTT ATACCGACAA AGAATTTATG
 GTGCTGCTTT GCAACGACTG CTTTCTATCT GTTGTGCTA GTCTTGCAAT
 ATTTTGTGTC TAAGAAAAAG TATGCTTACG ATGAAGTTGC GATTTCAACA TTTGTTAAGG
 TAATTGCTCT TGTGTCGTC TATACAGGCT TGATGACAGT ATTTGTCGGT
 TCAATCTGGA TTCGTTGGTC ACTAGGAATA GCGGTTCTAG TCGTTTATGC CTACATTTTT
 AGAAAGGAAT TAACAGTTGC CCTCAATACA TTCAGGGAAA AACGGTCTAA

Fig. 3 cont.

9/59

ATAAGGGCAC CTCTATAAAC TCCCAAAATT GCGAATTTGG AGTTACGAAA GCCTTGTTAA
 ATCAAACATT TTAAATTTTA GAAAATTAGT TTTTAGAGGT CCCCATATAA
 AAACGTCCCA AATGAGAGGT GCTCATAAGA ATTGACCATC ACTGCCATCT ACCCAAAGTT
 CAAGTATTCT CTACCATGAA AATTGTGCTA TAATCAAGTA TAAAGAAGGG
 AATGTTTCTT AAAGGACGTA TCGCCTCTG CTTATGCCAG AAGTCATGAG GTAAATCTCC
 CTAAAAATTG GGTAGAAAAG CAGATTAAAC TTCCACCAAT CTATTGAAGA
 TCGTGTTGAA GAGCAGGCTT TAGAAGCAAC AAGCCCTGAG ACTATTGCGA AGAAATCTAG
 GGCTATTTTT TCTAATCGGC TATCAGAAGT GAAGTAGCGA TCTTTATTAG
 TGTTCTTTTA CTACTTAAGG AAAACCAAGC TGCTCCCTCA AGACTTTATG GGAGCGATTT
 ACAGTCATTT TTAGAAAGGA AATAAAATGG TTTATATTAT TGCAGAAATT
 GGTGTGAATC ACAACGGTGA TGTTTATCTA GCACGGAAAA TGGTAGAAGT TGCCGTTGAT
 TGTGGTGTGG ATGCCGTTAA ATTTTACAGA TTTAAGGCAG ATTTGTTGAT
 TTCAAAATAC GCACCAAGG CCGAATACCA AAAAATTACA ACAGGAGAGT CAGATTCTCA
 GCTCGAAATG ACTCGTCGTT TGGAATTGAG CTTTGAAGAG TATCTTGATT
 TGGTGATTA CTGTCTTGAA AAGGGAGTTG ATGTGTTTTT GACACCTTTT GATGAGGAAT
 CATTGGACTT CTTGATTAGC ACAGATATGC CCGTTTATAA GATTCCATCT
 GGTGAGATTA CCAATCTTCC CTATTTGGAA AAAATTGGTC GTCAAGCTAA GAAAGTTATT
 CTTTCAACTG GTATGGCTGT TATGGATGAA ATTCATCAAG CCGTGAAGAT
 TTTGCAGGAA AATGGAACGA CCGATATTTT GATTTTGCAT TGTACAACCG AGTATCCAAC
 CCCTTACCCT GCTTTGAATT TGAATGTCTT GCATACCTTG AAAAAAGAAT
 TTCCAACTT AACAATTGGC TATTGAGACC ATAGTGTTGG TTCAGAAGTA CCCATCGCTG
 CTGCAGCAAT GGGAGCTGAA TTGATTGAAA AGCACTTTAC TCTGGACAAT
 GAAATGGAAG GACCAGATCA TAAAGCGAGT GCTACTCCTG ATATCTTAGC AGCCTTGGA
 AAAGGAGTGA GGATAGTGGA ACAATCTCTT GGTAAATTTG AAAAAGAGCC
 AGAAGAAGTT GAAGTACGAA ATAAATTGT AGCTAGAAAA TCTATTGTTG CCAAAAAAGC
 AATTGCTAAA GCGAAGTCT TTACAGAAGA AAACATCACT GTCAAAAAGAC
 CAGGAAATGG AATTTGCGCA ATGGAATGGT ACAAAGTCTT GGGGCAGGTG AGTGAGCAGG
 ATTTTGAGGA AGACCAAAT ATTTGCCATA GTGCTTTTGA AAATCAAATG
 TAAGCGGAGT AAGGATGAAA AAAATTTGTT TTGTGACAGG CTCTCGTGCC GAATATGGGA
 TTATGCGTCG CTTATTGAGC TATCTACAGG ATGATCCAGA AATGGAGCTG
 GATCTGTAG TGACAGCCAT GCATCTAGAA GAAAAATATG GGATGACGGT CAAAGACATC
 GAAGCGGACA AGCGTAGGAT TGTCAGCGG ATTCATTGCG ATTTGACGGA
 TACGTCTAAG CAGACAATCG TCAAATCTTT AGCGACCTTG ACAGAGCAAC TCACGGTTCT
 TTTTGAAGAA GTCCAGTATG ACTTGGTGTG GATTCTGGGG GATCGCTATG
 AGATGCTACC AGTTGCCAAT GCTGCGTTGC TTTATAATAT TCCTATTTGC CATATTCATG
 GTGGTGAAAA AACCATGGGA AATTTTGATG AGTCGATTCC CCATGCCATT
 ACCAAGATGA GTCACCTTCA TCTGACATCA ACGGATGAAT TTAGAAATCG TGTCAATCAA
 CTAGGAGAAA ATCCAACCAT GTACTGAACA TCGGAGCTAT GGGTGTGAA
 AATGTTTTAA AACAAGACTT TTTGACAAGA GAAGAGTTGG CGATGGAACT TGGGAATTGAT
 TTTGCCGAGG ATTACTATGT TGTACTCTTT CACCCTGTTA CCTTGGAGGA
 TAACACAGCC GAAGAACAAA CGCAGGCCTT ATTAGATGCT CTAAAAGAAG ATGGTAGCCA
 GTGTTTGATA ATTGGATCCA ATTCGGATAC ACATGCCGAT AAGATAATGG
 AATTGATGCA TGAATTTGTA AAACAAGACT CTGATTCTTA CATCTTTACT TCGCTTCCAA
 CTCGTTATTA CCATTCCCTG GTCAAGCATT CACAAGGTTT AATAGGGAAT
 TCTTCGTCAG GTTTGATTGA AGTGCCCTCA TTACAGGTTT CGACCTTAAA TATTGGAAAT
 CGCCAATTTG GACGTTTGTC AGGACCGAGT GTGGTACATG TTGGAACTTC
 TAAGGAAGCG ATTGTTGGTG GTTTGGGGCA ATTACGTGAT GTGATAGATT TTACCAATCC
 ATTTGAACAA CCTGATTCTG CTTTACAAGG TTATCGAGCT ATCAAGGAAT
 TTTTATCTGT ACAGGCCTCA ACCATGAAAG AGTTTTATGA TAGATAGGGG AGAAAGTTTG
 ATGAAAAAAG TAGCCTTTCT AGGAGCGGGT ACCTTTTTCAG ATGGTGTCCT
 TCCTTGTTG GATAGAACTC GATATGAACT CATTGGATAT TTTGAAGATA AACCGATCAG
 TGACTATCGT GGCTATCCTG TATTTGGTCC CTTGCAAGAT GTCCTAACCT
 ATTTGGATGA TGGAAAAGTA GATGCTGTCT TCGTCACTAT AGGTGACAA GTCAAGCGCA
 AGGAAATCTT TGACTTGCTT GCCAAAGATC ATTATGATGC TTTGTTCAAC
 ATCATTAGCG AGCAAGCCAA TATTTTTTCC CCAGATAGTA TCAAGGGACG AGGGGTTTTT
 ATAGGTTTTT CAAGTTTTGT AGGAGCCGAT TCCTATGTCT ATGACAATTG
 TATCATCAAT ACGGTGCCA TTGTGGAACA TCATACCACG GTGGAGGCC ATTGTAACAT
 TACTCCAGGA GTGACCATAA ATGGCTGTG CCGTATCGGA GAAAGCACTT
 ATATTGGAAG TGGTTCAACA GTGATTCAAT GTATCGAGAT TGCACCTTAT ACAACATTGG
 GGCAGGGAC AGTTGTTTTG AAATCGTTGA CGGAGTCAGG GACCTATGTT

Fig. 3 cont.

Fig. 3 cont.

SEO. ID. NO. 9

11/59

SLDIDHMMMEVMEASKSAAGSACPSPQAYQAAFEAGAENIIVVTITGGLSGSFNAARVARDM
YIEEHPNVNIHLIDSLASGEMDLLVHQINRLISAGLDFPQVVEAITHYREHSKLLFVLA
KVDNLVKNGRLSKLVGTVVGLLNIRMVGEASAEGKLELLQKARGHKKSVTAAFEEMKKAG
YDGGRIVMAHRNNAKFFQOFSELVKASFPTAVIDEVATSGLCSFYAEEGGLLMGYEVKA

Fig. 3 cont.

ORF2Z

SEQ. ID. NO. 10

[illegible]

12/59

12/39
MKKYQVIIQDILTGIEEHRFKRGEKLPSIRQLREQYHCSKDTVQKAMLELKYQNKIYAVE
KSGYYILEDRDIFQDHTCRAQSYRLSRITYEDFRICLKESLIGRENYLFNYYHQEGLAEL
ISSVQSLLM DYHVYTKKDQLVITAGSQQALYILTQMETLAGKTEILIENTYSRMIELIR
HQGIPYQTIERNLDGIDLEELESIFQTGKIKFFYTIPRLHNPLGSTYDIATKTAIVKLAK
QYDVYIIEDDYLAEDFSSHSPLPHYLDTDNRVYIYKSFTPTLFPALRIGAI SLPNQLRDI
FIKHKSLIDYDTNLMQKALS LYIDNGMFARNTQHLHHIYHAQWNKIKDCLEKYALNIPY
RIPKGSVTFQLSKGILSPSIQHMF GKYYFSGQKADFLQIFFEQDFADKLEQFVRYLNE

Fig. 3 cont.

ORF2Y

SEQ. ID. NO. 53

Variable	Mean	SD	Min	Max
Age	34.5	10.2	21	55
Gender	0.5	0.5	0	1
Marital status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	1500	500	500	3000
Health status	0.7	0.5	0	1
Smoking status	0.3	0.5	0	1
Alcohol consumption	0.2	0.4	0	1
Exercise frequency	0.4	0.5	0	1
Stress level	0.6	0.5	0	1
Sleep quality	0.5	0.5	0	1
Work satisfaction	0.4	0.5	0	1
Life satisfaction	0.5	0.5	0	1

13/59

MKIIIPNAKEVNTNLENASFYLLSDRSKPVLDAISQFDVKKMAAFYKLNEAKAELEADRW
YRIRTGQAKTYPAWQLYDGLMYRYMDRRGIDSKEENYLRDHVRVATALYGLIHPFEFISP
HRLDFQGSCLKIGNQSLKQYWRPYDQEVGDDELILSLASSEFEQVFSPOIQKRLVKILFM
EEKAGQLKVHSTISKKGGRLLSWLAKNNIQELSDIQDFKVDGFEYCTSESTANQLTFXR
SIKM

Fig. 3 cont.

ORF2X

SEQ. ID. NO. 11

09767041-01204

14/59

MKKRSGRSKSSKFKLVNFALLGLYSITLCFLVTMYRYNILDFRYLNIVTLLLVGAVL
AGLLMWRKKARIFTALLLVFSLVITSVGIYGMQEVVKFSTRLNSNSTFSEYEMSILVPAN
SDITDVRQLTSILAPAEYDQDNITALLDDISKMESTQLATSPGTSYLTAYQSMNGESQA
MVFNGVFTNILENEDPGFSSKVKKIYSFKVTQTVEATKQVSGDSFNIYISGIDAYGPIS
TVSRSDVNIIMTVNRATHKILLTTTPRDSYVAFADGGQNQYDKLTHAGIYGVNASVHTLE
NFGIDISNYVRLNFTISFLQLIDLVGIDVYNDQFTSLHGNYHFPVGQVHLNSDQALGF
VRERYSLTGGDNRGKNQEKVIAALIKKMSTPENLKNYQAILSGLEGSIQTDLSLETIMS
LVNTQLESGTQFTVESQALTGTGRSDLSSYAMPGSQLYMMEINQDSLEQSKAAIQSVLVE
K

Fig. 3 cont.

CPS2A

SEQ. ID. NO. 12

PCT/00/05378

15/59

MNNQEVNAIEIDVLFLLKTIWRKKFLILLTAVLTAGLAFVYSSFLVTPQYDSTTRIYVVS
QNVEAGAGLTNQELQAGTYLAKDYREIILSQDVLTQVATELNLKESLKEKISVSIPVDTR
IVSISVRDADPNEAARIANSLRTFAVQKVVEVTKVSDVTTLEEAVPAEEPTTPNTRNIL
LGLLAGGILATGLVLVMEVLDDRVKRPQDIEEVMGLTLLGIVPDSKKLK

Fig. 3 cont.

CPS2B

SEQ. ID. NO. 13

T02210-1403460

16/59

MAMLEIARTKREGVNKTEEFNAIRTNQLSGADIKVVGITSVKSNEGKSTTAASLAIAY
ARSGYKTVLVDADIRNSVMPGFFKPITKITGLTDYLAGTTDLSQGLCDTDIPNLTVIESG
KVSPNPTALLQSKNFENLLATLRRYYDYVIVDCPPLGLVIDAAIIAOKCDAMVAVVEAGN
VKCSSLKKVKEQLEQTGTPFLGVILNKYDIATEKYSEYGNYGKKA

Fig. 3 cont.

CPS2C

SEQ. ID. NO. 14

T 0 2 2 0 7 4 0 9 6 0

17/59

MIDIHSHIIFGVDDGPKTIEESLSLISEAYRQGVRYIVATSHRRKGMFETPEKIIMINFL
QLKEAFAEVYPEIRLCYGAELYYSKDILSKLEKKKVPTLNGSCYILLEFSTDTPWKEIQE
AVNEMTLLGLTPVLAHIERDALAFQSERVEKLIDKGCYTQVNSNHVLKPALIGERAKEF
KKRTRYFLEQDLVHCVASDMHNLYSRPPFMREAYQLVKKEYGEDRAKALFKKNPLLILKN
QVQ

Fig. 3 cont.

CPS2D

SEQ. ID. NO. 15

21/59

MKIISFTMVNNESEIIESFIRYNYNFIDEMVIIDNGCTDNTMQIIFNLIKEGYKISVYDE
SLEAYNQYRLDNKYLTKIIAEKNPDLIIPLDADEF LTADSNPRKLLEQLDLEKIHYVNWQ
WFVMTKKDDINDSFIPRRMQYCFEKPVWHHSDGKPVTKCIIISAKYYKKMNLKLSMGHHTV
FGNPNVRIEHNDLKFAHYRAISQEQLIYKTICYTIRDIATMENNIIETAQRTNQMALIES
GVDMWETAREASYSGYDCNVIHAPIDLSFCKENIVIKYNELSRETVAERVMKTGREMAVR
AYNVERKQKEKKFLKPIIFVLDGLKGDEYIHPNPSNHLTILTEMYNVRGLLTDNHQIKFL
KVNYRLIITPDFAKFLPHEFTVVPD TXDIEQVKSQYVGTGVDSLKIIISLKEYRKEIGFIG
NLYALLGFVPNMLNRIYLYIQRNGIANTIIKIKSRL.

Fig. 3 cont.

CPS2H

SEQ. ID. NO. 19

PCT/NL99/00460

22/59

MQADRRKTFGKMRIINNLFVVAIAFMGIIISNSQVVLAIGKASVIQYLSYLVILCIVN
DLLKNNKHIVVYKLGYLEFLIIFLFTIGICQQILPITTKIYLSISMMIISVLATLPISLIK
DIDDFERRISNHLLEALFITSILGIKMGATMFTGAVEGIGFSQGFNGGLTHKNFFGITILM
GFVLTYLAYKYGSYKRTDRFILGLELFLILISNTRSVYLILLLFLFLVNLDKIKIEQRQW
STLKYISMLFCAIFLYYFFGFLITHSDSYAHRVNGLINFFEYYRNDWFHLMFGAADLAYG
DLTLDYAIRVRRVLGWNGTLEMPLLSIMLKNGFIGLVGYGIVLYKLYRNVRIKTDNIKT
IGKSVFIIVVLSATVENYIVNLSFVFMPICFCLLSISTMESTINKQLQT

Fig. 3 cont.

CPS2I

SEQ. ID. NO. 20

T.0224.0130

MEKVSIIIVPIFNTKEYLRECLDSIIISQSYTNLEILLIDDGSSDSSTDICLEYAEQDGRIK
LFRLPNGGVSNAARNYGIKNSTANYIMFVDSDDIVDGNIVESLYTCLKENDSDLSGGLLAT
FDGNYQESELQKQCIDLEEIKEVRDLGNENFPNHYMSGIFNSPCKKLYKNIYINQGFDE
QWLGEDLLFNLYLKNYKIKKRVYVNNLYFARRSLQSTNTFKYDVFIQLENLEEKTFDLF
VQIFGGQYEFVSFKETLOWHIYYSSLFMKNGDESLPKKLHIKFKYLYNRHSLDTLSIKRT
SSVFKRICKLIVANNLFKIFLNTLIREEKND

CPS2J

SEQ. ID. NO. 21

Figure 1 consists of 11 bar charts, labeled (a) through (k), each representing a different demographic or attitudinal variable. Each chart compares the percentage of respondents for that variable in 1997 (represented by white bars) and 2000 (represented by black bars). The x-axis for each chart lists the categories, and the y-axis represents the percentage of respondents, ranging from 0 to 100.

- (a) Age:** Categories are 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75+. The 2000 distribution is slightly shifted towards older age groups compared to 1997.
- (b) Sex:** Categories are Male and Female. The percentages are relatively stable between 1997 and 2000.
- (c) Education:** Categories are Less than high school, High school, Some college, College, Graduate school. There is a noticeable increase in the 'College' category in 2000.
- (d) Income:** Categories are Less than \$10,000, \$10,000-\$19,999, \$20,000-\$29,999, \$30,000-\$39,999, \$40,000-\$49,999, \$50,000-\$59,999, \$60,000-\$69,999, \$70,000-\$79,999, \$80,000-\$89,999, \$90,000-\$99,999, \$100,000+. The 2000 distribution shows a shift towards higher income brackets.
- (e) Employment:** Categories are Full-time, Part-time, Unemployed. The 'Unemployed' category shows a significant increase in 2000.
- (f) Religion:** Categories are Protestant, Catholic, Jewish, Muslim, Other. The distribution remains fairly consistent.
- (g) Political affiliation:** Categories are Republican, Democrat, Independent. The 'Democrat' category shows a slight increase.
- (h) Party affiliation:** Categories are Republican, Democrat, Independent. The 'Democrat' category shows a slight increase.
- (i) Attitude towards the environment:** Categories are Very good, Good, Fair, Poor, Very poor. The 'Very good' and 'Good' categories show a slight increase in 2000.
- (j) Attitude towards the government:** Categories are Very good, Good, Fair, Poor, Very poor. The 'Very good' and 'Good' categories show a slight increase in 2000.
- (k) Attitude towards the economy:** Categories are Very good, Good, Fair, Poor, Very poor. The 'Very good' and 'Good' categories show a slight increase in 2000.

24/59

MINISIIVPI YNVEQYLSKC INSIVNQTYK HIEILLVNDG STDNSEEICL AYAKKDSRIR
YFKKENGGLS DARNYGISRA KGDYLA FIDS DDFIHSEFIQ RLHEAIEREN
ALVAVAGYDR VDASGHFLTA EPLPTNQAVL SGRNVCKKLL EADGHRFVVA WNKLYKKELF
EDFRFEKGKI HEDEYFTYRL LYELEKVAIV KECLYYYVDR ENSIITSSMT
DHRFHCLLEF QNERMDFYES RGDKELLLEC YRSFLAFAVL FLGKYNHWLS KQKKLLQTL
FRIVYKQLKQ NKRLALLMNA YYLVGCLHLN FSVFLKTGKD KIQERLRSE
SSTR

Fig. 3 cont.

CPS2K

SEQ. ID. NO. 22

F0022F00 " F00229460

25/59

MSKKSIVVSG LVYTIGTILV QGLAFITLPI YTRVISQEVY GQFSLYNSWV GLVGLFIGLQ
LGGAFGPGWV HFREKFDDFV STLMVSSIAF FLPIFGLSFL LSQPLSLLFG
LPDWVVPLIF LQSLMIVVQG FFTTYLVQRQ QSMWTLPLSV LSAVINTALS LFLTFFPMEND
FIARVMANPA TTGVLACVSX WFSQKKNGLH FRKDYLRYGL SISIPLIFHG
LGHNVLNQFD RIMLGKMLTL SDVALYSFGY TLASILQIVF SSLNTVWCPW YFEKKRGADK
DLLSYVRYYL AIGLFVTFGF LTIYPELAM LGGSEYRFSM GFIPMIIVGV
FFVFLYSFPA NIQFYSGNTK FLPIGTFIAG VLNISVHFVL IPTKNLWCCF ATTASYLLLLL
VLHYFVAKKK YAYDEVAIST FVKVIALVVV YTGLMTVFVG SIWIRWSLGI
AVLVVYAYIF RKELTVALNT FREKRSK

Fig. 3 cont.

CPS20

SEQ. ID. NO. 23

T02210 " 6409460

26/59

MVYIIAEIGC NHNGDVHLAR KMVEVAVDCG VDAVKFQTFK ADLLISKYAP KAEYQKITTG
ESDSQLEMTR RLELSFEEYL DLRDYCLEKG VDVSTPFDE ESLDFLISTD
MPVYKIPSGE ITNLPYLEKI GRQAKKVILS TGMVAVMDEIH QAVKILQENG TTDISILHCT
TEYPTYPAL NLNLVHTLKK EFPNLTIGYS DHSVGVSEVPI AAAAMGAELI
EKHFTLDNEM EGPDKASAT PDILAALVKG VRIVEQSLGK FEKEPEEEV RNKIVARKSI
VAKKAIKGE VFTEENITVK RPGNGISPME WYKVLQVSE QDFEEDQNIC
HSAFENQM

Fig. 3 cont.

CPS2P

SEQ. ID. NO. 24

PCT/NL99/00460

27/59

MKKICFVTGS RAEYGIMRRL LSYLQDDPEM ELDLVVTAMH LEEKYGMTVK DIEADKRRIV
KRIPLHLTDT SKQTIVKSLA TLTEQLTVLF EEVQYDLVLI LGDRYEMPLV
ANAALLYNIP ICHINGGEKT MGNFDESIRH AITKMSHLHL TSTDEFNRV IQLGENPTMY

Fig. 3 cont.

CPS2Q

SEQ. ID. NO. 25

PCT/NL99/00460

28/59

MELGIDFAED YYVLFHPVT LEDNTAEEQT QALLDALKED GSQCLIIGSN SDTHADKIME
LMHEFVKQDS DSYIFTSLPT RYYHSLVKHS QGLIGNSSSG LIEVPSLOVP
TLNIGNRQFG RLSGPSVVHV GTSKEAIVGG LGQLRDVIDF TNPFEQPSA LQGYRAIKEF
LSVQASTMKE FYDR

Fig. 3 cont.

CPS2R

SEQ. ID. NO. 26

PCT/NL99/00460

29/59

MKKVAFLGAG TFS DGVL PWL DRTRYELIGY FEDKPISDYR GYPVFGPLQD VLTYLDDGKV
DAVFVTIGDN VKRKEIFDLL AKDHYDALFN IISEQANIFS PDSIKGRGVF
IGFSSFVGAD SYVYDNCIIN TGAIVEHHTT VEAHCNITPG VTINGLCRIG ESTYIGSGST
VIQCIEIAPY TTLGAGTVVL KSLTESGTYV GVPARKIK

Fig. 3 cont.

CPS2S

SEQ. ID. NO. 27

PCT/NL99/00460

30/59

MEPICLIPAR SGSKGLPNKN MLFLDGVPMI FHTIRAAIES GCFKKENIYV STDSEVYKEI
CETTGVQVLM RPADLATDFT TSFQLNEHFL QDFSDDQVVFV LLQVTSPLRS
GKHVKEAMEL YGKGQADHV V SFTKVDKSPT LFSTLDENG F AKDIAGLGGS YRRQDEKTL Y
YPNGAIYISS KQAYLADKTY FSEKTAAYVM TKEDSIDVDD HFDFTGVIGR
IYFDYQRREQ QNKPFYKREL KRLCEQRVHD SLVIGDSRLL ALLDGF DNI SIGGMTASTA
LENQGLFLAT PIKKVLLSLG VNDLITDYPL HMIEDTIRQL MESLVSKAEQ
VFVTTIAYTL FRDSVSNEEI VQLNDVIVQS ASELGISVID LNEVVEKEAM LDYQYTNDGL
HFNQIGQERV NQLILTSLTR

Fig. 3 cont.

CPS2T

SEQ. ID. NO. 28

PCT/NL99/00460

WO 00/05378		31/59		PCT/NL99/00460		
ATCGCCAAAC	GAAATTGGCA	TTATTTGATA	TGATAGCAGT	TGCAATTTCT	GCAATCTTAA	CAAGTCATAT
ACCAAATGCT	GATTTAAATC	GTTCTGGAAT	TTTTATCATA			
ATGATGGTTC	ATTATTTTGC	ATTTTTTATA	TCTCGTATGC	CAGTTGAATT	TGAGTATAGA	GGTAATCTGA
TAGAGTTTGA	AAAAACATTT	AACTATAGTA	TAATATTTGC			
AATTTTTCTT	ACGGCAGTAT	CATTTTTGTG	GGAGAATAAT	TTCGCACCTT	CAAGACGTGG	TGCCGTGTAT
TTCACATTAA	TAAACTTCGT	TTTGGTATAC	CTATTTAACG			
TAATTATTAA	GCAGTTTAA	GATAGCTTTC	TATTTTCGAC	AATCTATCAA	AAAAAGACGA	TTCTAATTAC
AACGGCTGAA	CGATGGGAAA	ATATGCAAGT	TTTTATTTGAA			
TCACATAAAC	AAATTCAAAA	AAATCTTGTT	GCATTGGTAG	TTTTAGGTAC	AGAAATAGAT	AAAATTAATT
TATCATTACC	GCTCTATTAT	TCTGTGGAAG	AAGCTATAGA			
GTTTTCAACA	AGGGAAGTGG	TCCACCACGT	CTTTATAAAT	CTACCAAGTG	AGTTTTTAGA	CGTAAAGCAA
TTCGTTTCAG	ATTTTGAGTT	GTTAGGTATT	GATGTAAGCG			
TTGATATTAA	TTCATTCCGGT	TTTACTGCGT	TGAAAAACAA	AAAAATCCAA	CTGCTAGGTG	ACCATAGCAT
TGTAACTTTT	TCCACAAATT	TTTATAAGCC	TAGTCATATC			
ATGATGAAAC	GACTTTTTGGA	TATACTCGGA	GCGGTAGTCG	GGTTAATTAT	TTGTGGTATA	TTTTCTATTT
TGTTAGTTC	AATTATTTCG	AGAGATGGTG	GACCGGCTAT			
TTTTGCTCAG	AAACGAGTTG	GACAGAATGG	ACGCATATTT	ACATTCTACA	AGTTTCGATC	GATGTATGTT
GATGCTGAGG	AGCGCAAAAA	AGACTTGCTC	AGCCAAAAACC			
AGATGCAAGG	GTGGGTATGT	TTTAAAATGG	GAAAAACGAT	CCTAGAATTA	CTCCAATTGG	ACATTTTCATA
CGCAAAAAACA	AGTTTAGACG	AGTTACCACA	GTTTTATAAT			
GTTTTAATTG	GCGATATGAG	TCTAGTTGGT	ACACGTCAC	CTACAGTTGA	TGAATTTGAA	AAATATACTC
CTGGTCAAAA	GAGACGATTG	AGTTTTAAAC	CAGGGATTAC			
AGGTCTCTGG	CAGGTIAGTG	GTCGTAGTAA	TATCAGACAG	TTCGACGACG	TAGTTCGGTT	GGACTTAGCA
TACATTGATA	ATTGGACTAT	CTGGTCAGAT	ATTTAAATTT			
TATTAAAGAC	AGTGAAAGTT	GTATTGTTGA	GAGAGGGAAG	TAAGTAAAAG	TATATGAAAG	TTTGTTTGGT
CGGTCTCTCA	GGGGGACATT	TGACTCACTT	GTATTTGTTA			
AAACCGTTTT	GGAAGGAAGA	AGAACGTTTT	TGGGTAAACAT	TTGATAAAGA	GGATGCAAGA	AGTCTTTTGA
AGAATGAAAA	AATGTATCCA	TGTTACTTTC	CAACAAATCG			
CAATCTCAT	AATTTAGTGA	AAAATCTTT	CCTAGCTTTC	AAAATTTTAC	GTGATGAGAA	ACCAGATGTT
ATTATTTTCT	CTGGTGCGGC	CGTTGCTGTC	CCCTTCTTTT			
ACATCGGAAA	ACTATTTGGA	GCAAAAGCGA	TTTATATTGA	AGTATTTGAT	CGAGTTAATA	AATCTACATT
AACTGGAAAA	CTAGTTTATC	CCGTAACAGA	TATTTTATT			
GTTCAGTGGG	AAGAAATGAA	GAAAGTATAT	CCTAAATCTA	TTAACTTGGG	GAGTATTTTT	TAATGATTTT
TGTAACAGTA	GGAACATCAG	AACAACAGTT	TAATCGATTG			
ATAAAAGAGA	TTGATTTATT	GAAAAAAAT	GGAAGTATAA	CCGACGAAAT	ATTTATTCAA	ACAGGATATT
CTGACTATAT	TCCAGAATAT	TGCAAGTATA	AAAAATTTCT			
CAGTTACAAA	GAAATGGAAC	AATATATTAA	CAAATCAGAA	GTAGTTATTT	GCCACGGAGG	CCCCGCTACT
TTTATGAATT	CATTATCCAA	AGGAAAAAAA	CAATTATTGT			
TTCCTAGACA	AAAAAAGTAT	GGTGAACATG	TAAATGATCA	TCAAGTAGAG	TTTGTAAAGAA	GAATTTTACA
AGATAATAAT	ATTTTATTTA	TAGAAAAAT	AGATGATTTG			
TTTGAAAAAA	TTATTGAAGT	TTCTAAGCAA	ACTAACTTTA	CATCAAATAA	TAATTTTTTT	TGTGAAAGAT
TAAAACAAAT	AGTTGAAAAA	TTTAATGAGG	ATCAAGAAAA			
TGAATAATAA	AAAAGATGCA	TATTTGATAA	TGGCTTATCA	TAATTTTTCT	CAGATTTTAC	TGGAGAGGGA
TACAGATATT	ATCATCTTCT	CTCAGGAGAA	TGCACACCAT			
TAGTTCCCTC	AGAATACCTG	TATAATTATT	TAAATATATC	TCAGGATTTA	TATGTTGAAT	TTACAAAAGA
TGAGCAAAAA	TATAAAGAAA	ATAGGATATA	TGAACGAGTT			
AAATGTTACA	GATTATTTCC	TAATATATCA	GAAAAAACTA	TTGATAATGT	ACTGTTTAGA	ATTTTATTAA
GAATGTATCG	AGCTTTTGAA	TACTATTTAC	AAAGATTGTT			
GTTTATTGAT	AGAATAAAAA	ACATGGTCTA	AGAATAAGAT	TTGGTTCTAA	TTGGGTTTCG	CTTCCACATG
ATTTTGTGGC	AATTCITTTA	TCAAATGAAA	ACGAAACAGC			
TTATTTATTT	AAGTAATCTA	AATGTCCAGA	TGAACATATT	ATACAGACAA	TTATAGAAAA	ATATGAATTT
TCAAATAGAT	TATCTAAATA	TGGAAATTTA	AGATATATAA			
AGTGGA AAAA	ATCAACATCT	TCTCCTATTG	TCTTTACAGA	TGATTCTATT	GATGAATTGC	TAAATGCAAG
AAATTTAGGT	TTTTTATTGG	CTAGAAAAGT	AAAAATAGAA			
AATAAATCTA	AATTTAAAGA	AATTATTACT	AAAAAATAAA	ATAGTTGATT	TTGTGAGAGT	AATGTATGTT
TAAATTATTT	AAATATGACC	CGGAATATTT	TATTTTAAAG			
TACTTCTGGT	TGATTATTTT	TATTCCAGAG	CAAAAGTATG	TATTTTTATT	AATTTTTATG	AATTTAATTT
TATTTTCATAT	AAAATTTTTG	AAAACATAAG	TAATATTAAA			
AAATGAAATT	TTATTGTTTT	TATTATGGTC	TATATTATGT	TTTGTTCAG	TAGTCACAAG	TATGTTTGT
GAAATAAATT	TTGAAAGATT	ATTGTCAGAT	TTTACTGCTC			
CCATAATTTG	GATTATTGCA	ATAATGTATT	ATAATTTGTA	TTCAATTATA	AATATTGATT	ATAAAAAATT
AAAAAATAGT	ATCTTTTTTA	GTTTTTTAGT	TTTATTAGGT			
ATATCTGCAT	TGTATATTAT	TCAAAATGGG	AAAGATATTG	TATTTTTAGA	CAGACACCTT	ATAGGACTAG
ACTATCTTAT	AACAGGCGTC	AAAACAAGGT	TGGTTGGCTT			
TATGAACTAT	CCTACGTTAA	ATACCACTAC	AATTATAGTT	TCAATTCCGT	TAATCTTTGC	ACTTATAAAA
AATAAAATGC	AACAATTTTT	TTTCTTGTGT	CTTGCTTTTA			

Fig. 4

32/59

TACCGATCTA TTTAAGTGGG TCGAGAATTG GTAGTTTATC GCTAGCAATA TTAATTATAT GCTTGTTATG
 GAGATATATA GGTGGAAAAT TTGCTTGGAT AAAAAAGCTA AATTGCTTTA CCATGAAATT TTGGCTGTTT
 ATAGTAATAT TTGTAATACT ACTTATTATT TTAAATACTG AATTGCTTTA CCATGAAATT TTGGCTGTTT
 ATAATTCTAG AGAATCAAGT AACGAAGCTA GATTTATTAT TTATTTGGAT ATGGAATATC CGAATATTCA
 TTATCAAGGA AGTATTGATA AAGTATTAGA AAACAATATT TGATTTTTCT TTTTTTTATG TTATAAAAAA
 GTTACGGGAA CTTGGCTCGG AAGTCATTCA GGCTATATAT GATGTTTTCT TTTTTTTATG TTATAAAAAA
 CATTTTTTTT TAAATCAGGA ATAGTTGGGT TGATTTTTACT ATTTTATTTT CGATTATTAT TATATTAGTA CTATTCTTTT
 AAGTTATGGA GTTAATGGGG AAACAGCACT ATTTTATTTT ACCTAATTTAT AATGTCCAAG ATTATCTTGA
 ACATCATTAG CCATATTTTT CATATATGAA ACAATAGATC CGATTATTAT TATATTAGTA CTATTCTTTT
 CTTCAATAGG TATTTGGAAT AATATAAATT TTAATAAGGA ACCAATTTAT AATGTCCAAG ATTATCTTGA
 TATGGAGACA AAAAATGAAT GATTTAATTT CAGTTATTGT ACCTAATTTAT AATGTCCAAG ATTATCTTGA
 TAAATGTATT AACAGTATTA TTAACCAAAC ATATACTAAT CTGAGAAAAT TTGCTTAAAC TATATGAAGA
 TTAGAGGTTA TTCTCGTAAA TGATGGAAGT ACTGATGATT CTGAGAAAAT TTGCTTAAAC TATATGAAGA
 ACGATGGAAG AATTAAATAT TACAAGAAAA TTAATGGCGG GGTAAATATA TTGCTTTTGT CGATTCTGAT
 TCTAGCAGAT GCTCGAAAT TCGGACTAGA ACATGCAACA GGTAAATATA TTGCTTTTGT CGATTCTGAT
 GACTATATAG AAGTTGCAAT GTTCGAGAGA ATGCATGATA TTGTTTAGTA GACGAAAACG GGTATACAAA
 ATATAACTGA GTATAATGCC GATATAGCAG AGATAGATTT AATGTAAACAC GTGTAGTAGT TGATACTAGA
 GAAAAAAGA AATAGTAATT TTCATGTCTT AACGAGAGAA ATAATGTTTG GTGCAAGCTT TATTCACGAG
 GAGACTGTAA AAGAATTTTT GTCAGGATCT AATATAGAAA AATGTAAACAC GTGTAGTAGT TGATACTAGA
 ATATTATAAA AGATATAAAA TTCCAAATTA ATAATAGAAG AAGATTGGAG AATTACCCCT TTAAGTTAAA
 TATTGGTGAG GATTTGCTTT TTAATTTGGA GGTCTTGAAC AAGATTGGAG AATTACCCCT TTAAGTTAAA
 GAATATTATT ATAATTATGT CATTCGTAAC AGTTCGCTTA AAGATTGGAG AATTACCCCT TTAAGTTAAA
 TTAATCAGAA ATTCTCTATA AATAATATTG ATTTAGTCAC AAGATTGGAG AATTACCCCT TTAAGTTAAA
 AAGAGAGTTT AGTCATTATT TTGATGCAAA AGTTATTAAA GTTTGGATAA TGAGTCTCTG CCAATATTAG
 GAGAAGGTTA AATGTTTTAA CAAAATGTAT TCAACGATT GTTTGGATAA TGAGTCTCTG CCAATATTAG
 AGTCTTATCG AAAAGAAATA CGTAGATATC CATTTATTAA TATTTGATGA AATTTTCGCC TAAACTATAT
 AGCGAAAAGA TATTTATCAA GAAAGCATT AGTTACGTTG TATTTGATGA AATTTTCGCC TAAACTATAT
 GTAATGTTAT ATAAGAAAT TCAAAAGCAG TAGAGGTAAA GATAAATATT TAAGTAGTTG TATAGAAAGC
 AATGGATAAA ATTAGTGTTA TTGTTCCAGT TTATAATGTA GATAAATATT TAAGTAGTTG TATAGAAAGC
 ATTATTAATC AAAATTATAA AAATATAGAA ATATTATTGA GGAATATGCA GAAAAAGATA AAAGAGTAAA
 TAGATGATGG CTCTGTAGAT GATTCTGCTA AAATATGCAA GGAATATGCA GAAAAAGATA AAAGAGTAAA
 AATTTTTTTT ACTAATCATA GTGGAGTATC AAATGCTAGA TTGTTGACTC TGATGATGTT GTTGATAGTA
 AATCATGGAA TAAAGCGGAG TACAGCTGAA TATATTATGT TTGTTGACTC TGATGATGTT GTTGATAGTA
 GATTAGTAGA AAAATTATAT TTTAATATTA TAAAAAGTAG AATATAAATA ATTTTGAAGT GAATAATCCA
 AAGTGATTTA TCTGGTTGTT TGTACGCTAC TTTTTCAGAA AATATAAATA ATTTTGAAGT GAATAATCCA
 AATATTGATT TTGAAGCAAT TAATACCGTG CAGGACATGG TTCTACTCCT GTTTGTAAAC TATATAAGAA
 GAGAAAAAAA TTTTATGAAT TTGTATATAA ATAATATTTT TAGATAGAGT TAGTTATTTG ACTGAACATC
 AAGATACATA ACAGATCTTT TTCAAGAGAA TCAATGGTTA TAGATAGAGT TAGTTATTTG ACTGAACATC
 GGAGAAGATT TACTTTTTAA TCTGCATTAT TTAAAGATA TAGATAGAGT TAGTTATTTG ACTGAACATC
 TTTATTTTTT TAGGAGAGGT AATAAGATA CAGTAAATTC AAACAAGTGA TAGTATTGTT TAAGCAAATA
 TTTTAAAGAA GGTGTGTTTT TGCAATTGGA AAATTTGCAA AAACAAGTGA TAGTATTGTT TAAGCAAATA
 TATGGTGAGG ATTTTGACGT ATCAATTGTT AAAGATACTA ATACGAAAAA CAGTCTATTT TTGACAAATT
 TACGTTGGCA AGTATTTTAT TATAGCTTAC TAATGTTTAA ATACGAAAAA CAGTCTATTT TTGACAAATT
 TTTAATTTTT AGAAATCTTT ATAAAAATA TTATTTTAAAC TTTGTATAAG AATTGTTTCG AACAAAGTTT
 TTGTTAAAG TATCTAACAA AAATTCTTTG TCTAAAAAT TTTGTATAAG AATTGTTTCG AACAAAGTTT
 TTAATAAAT ATTATGGTTA TAATAGGAAG ATATCATGGA GTAGAAAAAT ATTTATCTAA ATGTATAGAT
 TACTATTAGT AAAATTTCTA TAATTGTACC TATATATAAT GTAGAAAAAT ATTTATCTAA ATGTATAGAT
 AGCATTGTAA ATCAGACCTA CAAACATATA GAGATTCTTC TTTAGCATAT GCGAAGAAAG ATAGTCGCAT
 TGGTGAATGA CGGTAGTACG GATAATTCGG AAGAAATTTG TTTAGCATAT GCGAAGAAAG ATAGTCGCAT
 TCGTTATTTT AAAAAAGAGA ACGGCGGGCT ATCAGATGCC CTTTTATAGA CTCAGATGAT TTTATTCATT
 CGTAATTATG GCATAAGTCG CGCCAAGGGT GACTACTTAG CTTTTATAGA CTCAGATGAT TTTATTCATT
 CGGAGTTCAT CCAACGTTTA CACGAAGCAA TTGAGAGAGA GCTTCGGGGC ATTTCTTAAC AGCAGAGCCG
 GAATGCCCTT GTGGCAGTTG CTGGTTATGA TAGGGTAGAT GCTTCGGGGC ATTTCTTAAC AGCAGAGCCG
 CTTCTACAA ATCAGGCTGT TCTGAGCGGC AGGAATGTTT GGCCTGTAAT AAACCTCTATA AAAAAGAACT
 GTAAAAAGCT GCTAGAGCGG GATGGTCATC GCTTTGTTGG GAGTTGCAAT AGTTAAGGAG TGCTTGTACT
 ATTTGAAGAT TTTGATTTG AAAAGGGTAA GATTCATGAA AAGTTGCAAT AGTTAAGGAG TGCTTGTACT
 GATGAATACT TCACTTATCG CTTGCTCTAT GAGTTAGAAA AAGTTGCAAT AGTTAAGGAG TGCTTGTACT
 ATTATGTTGA CCGAGAAAAT AGTATCACAA CTTCTAGCAT GAACGAATGG ACTTCTATGA AAGTAGAGGA
 GACTGACCAT CGCTTCCATT GCCTACTGGA ATTTCAAAAT GAACGAATGG ACTTCTATGA AAGTAGAGGA
 GATAAAGAGC TCTTACTAGA GTGTTATCGT TCATTTTATG GAGCAAACAG CAAAAGAAGC TT
 CCTTTGCTGT TTTGTTTTTA GGCAATATA ATCATTGCTT GAGCAAACAG CAAAAGAAGC TT

Fig. 4 cont.

SEQ. ID. NO. 29

FIG. 4 CONT.

33/59

RQTKLALFDM IAVAISAILT SHIPNADLNR SGIFIIMMVH YFAFFISRMP VEFEYRGNLI
EFEKTFNYSI IFAIFLTAVS FLENNFALS RRGAVYFTLI NFVLVYLENV
IIKQFKDSFL FSTIYQKKT I LITTAERWEN MQVLFESHKQ IQKNLVALVV LGTEIDKINL
SLPLYYSVEE AIEFSTREVV DHVFINLPSE FLDVKQFVSD FELLGIDVSV
DINSFGFTAL KNKKIQLLGD HSIVTFSTNF YKPSHIMMKR LLDILGAVVG LIICGIVSIL
LVPIIRRDGG PAIFAQKRVG QNGRIFTFYK FRSMYVDAEE RKKDLLSQNQ
MQGWVCFKMG KTILELLQLD ISYAKTSLDE LPQFYNVLIG DMSLVGTRPP TVDEFEKYTP
GQKRRLSFKP GITGLWQVSG RSNITDFDDV VRLDLAYIDN WTIWSDIKIL
LKTVKVLLR EGSK

Fig. 4 cont.

CPS1E

SEQ. ID. NO. 30

09704-0301

34/59

MKVCLVGSSG GHLTHLYLLK PFWKEERFW VTFDKEDARS LLKNEKMYPY YFPTNRNLIN
LVKNTFLAFK ILRDEKPDVI ISSGAAVAVP FFYIGKLFGA KTIYIEVFDR
VNKSTLTGKL VYPVTDIFIV QWEEMKKVYP KSINLGSIF

Fig. 4 cont.

CPS1F

SEQ. ID. NO. 31

09767041.03201
"FOREF" 04029260

WO 00/05378

35/59

PCT/NL99/00460

MIFVTVGTHE QQFNRLIKEI DLLKKNKSIT DEIFIQTGYS DYIPEYCKYK KFLSYKEMEQ
YINKSEVVIC HGGPATFMNS LSKGKKQLLF PRQKKYGEHV NDHQVEFVRR
ILQDNNILFI ENIDDLFEKI IEVSKQTNET SNNNFFCERL KQIVEKFNEQ QENE

Fig. 4 cont.

CPS1G

SEQ. ID. NO. 32

09249260

36/59

MFKLFKYDPE YFFKYFWLI IFIPEQKYVF LLIFMNLILF HIKFLKTKLI LKNEILLFLL
WSILCFVSVV TSMFVEINFE RLFADFTAPI IWIIAIMYYN LYSFINIDYK
KLKNSIFFSF LVLLGISALY IIQNGKDIVE LDRHLIGLDY LITGVKTRLV GFMNYPTLNT
TTIIVSIPLI FALIKNKMQQ FFFLCLAFIP IYLSGSRIGS LSPLAILIIC
LLWRYIGGKF AWIKKLIVIF VILLIILNTE LLYHEILAVY NSRESSNEAR FIIYQGSIDK
VLENNILFGY GISEYSVTGT WLGSHSGYIS FFYKSGIVGL ILLMFSFFYV
IKKSYGVNGE TALFYFTSLA IFFIYETIDP IIIILVLFFS SIGIWNNINF KKDMETKNE

Fig. 4 cont.

CPS1H

SEQ. ID. NO. 33

09767044-01204

37/59

MNDLISVIVP IYNVQDYLDK CINSIINQTY TNLEVILVND GSTDDSEKIC LNYMKNDGRI
KYYKKGGL ADARNFGLH ATGKYIAFVD SDDYIEVAMF ERMHDNITEY
NADIAEIDFC LVDENGYTKK KRNSNFHVL T REETVKEFLS GSNIENNVWC KLYSRDIKD
IKFQINNRSI GEDLLFNLEV LNNVTRVVVD TREYYYNYVI RNSSLINQKF
SINNIDLVTR LENYPFKLKR EFSHYFDKV I KEKVKCLNK MYSTDCLDNE FLPILESYRK
EIRRYPFKA KRYLSRKHLV TLYLMKFSPK LYVMLYKKFQ KQ

Fig. 4 cont.

CPS11

SEQ. ID. NO. 34

FO 2270 " 4029260

38/59

MDKISVIVPV YNVDKYLSSC IESIINQNYK NIEILLIDDG SVDDSAKICK EYEKDKRVKI
FFTNHSGVSN ARNHGIKRST AEYIMFVDSD DVVDSRLVEK LYFNIIKSRS
DLSGCLYATF SENINNFEVN NPNIDFEAIN TVQDMGEKNF MNLXXNNIFS TPVCXLYQKR
YITDLFOENQ WLGEDLLFNL HYLKNIDRVS YLTEHLYFYR RGILSTVNSF
KEGVFLQLEN LQKQVIVLFK QIYGEDFDVS IVKDTIRWQV FYYSLLMFKY GKQSIFDKFL
IFRNLYKKYY FNLLKVSNN SLSKNFCIRI VSNKVFKKIL WL

Fig. 4 cont.

CPS1J

SEQ. ID. NO. 35

T022F0 "T4029260

39/59

MDTISKISII VPIYNVEKYL SKCIDSIVNQ TYKHIEILLV NDGSTDNSEE ICLAYAKKDS
RIRYFKKENG GLSDARNYGI SRAKGDYLAF IDSDDFIHSE FIQRLHEAIE
RENALVAVAG YDRVDAAGHF LTAEPLPTNQ AVLSGRNVCK KLEADGHRF VVACNKLYKK
ELFEDFRFEK GKIHEDEYFT YRLLYELEKV AIVKECLYYY VDRENSITTS
SMTDHRFHCL LEFQNERMDF YESRGDKELL LECYRSFLAF AVLFLGKYNH WLSKQQKK

Fig. 4 cont.

CPS1K

SEQ. ID. NO. 36

T022T0 "T4029250

40/59

AAGCTTATCG	TCAAGGTGTT	CGCTATATCG	TGGCGACATC	TCATAGACGA	AAAGGGATGT
TTGAAACACC	AGAAAAAGTT	ATCATGACTA	ACTTTCTTCA	ATTTAAAGAC	
GCAGTAGCAG	AAGTTTATCC	TGAAATACGA	TTGTGCTATG	GTGCTGAATT	GTATTATAGT
AAAGATATAT	TAAGCAAAC	TGAAAAAAG	AAAGTACCCA	CACTTAATGG	
CTCGCGCTAT	ATTCTTTTGG	AGTTCAGTAG	TGATACTCCT	TGGAAAGAGA	TTCAAGAAGC
AGTGAACGAA	GTGACGCTAC	TTGGGCTAAC	TCCCGTACTT	GCCCATATAG	
AACGATATGA	CGCCCTAGCG	TTTCATGCAG	AGAGAGTAGA	AGAGTTAATT	GACAAGGGAT
GCTATACTCA	GGTAAATAGT	AATCATGTGC	TGAAGCCAC	TTAATTGGT	
GATCGAGCAA	AAGAATTTAA	AAAACGTACT	CGGTATTTTT	TAGAGCAGGA	TTTAGTACAT
TGTGTTGCTA	CGGATATGCA	TAATTTATCT	AGTAGACCTC	CGTTTATGAG	
GGAGGCTTAT	AAGTTGCTAA	CAGAGGAATT	TGGCAAAGAT	AAAGCGAAAG	CGTTGCTAAA
AAAGAATCCT	CTTATGCTAT	TAAAAAACCA	GGCGATTTAA	ACTGGTTACT	
CTAGATTGTG	GAGAGAAAAA	TGGATTTAGG	AACTGTTACT	GATAAACTGT	TAGAACGCAA
CAGTAAACGA	TTGATACTCG	TGTGCATGGA	TACGTGTCTT	CTTATAGTTT	
CCATGATTTT	GAGCAGACTG	TTTTTGATG	TTATTATTGA	CATACCAGAT	GAACGCTTCA
TTCTTGCAGT	TTTATTCGTA	TCAATTTTAT	ATTTGATTCT	ATCGTTTAGA	
TTAAAAGTCT	TTTCATTAAT	TACGCGTTAC	ACAGGGTATC	AGAGTTATGT	AAAAATAGGA
CTTAGTTTAA	TATCTGCGCA	TTCATTGTTT	TTAATTATCT	CAATGGTGTT	
GTGGCAGGCT	TTAGTTATC	GTTTCATCTT	AGTATCCTTA	TTTTTGTCGT	ATGTAATGCT
CATTACTCCG	AGGATTGTTT	GGAAAGTCTT	ACATGAGACG	AGAAAAAATG	
CTATCCGTAA	GAAGGATAGC	CCACTAAGAA	TCTTAGTAGT	AGGTGCTGGA	GATGGTGGA
ATATTTTAT	CAATACTGTC	AAAGATCGAA	AATTGAATTT	TGAAATTGTC	
GGTATCGTTG	ATCGTGATCC	AAATAAACTT	GGAACATTTA	TCCGTACGGC	TAAAGTTTTA
GGAAACCGTA	ATGATATTCC	ACGACTGGTA	GAGGAATTAG	CTGTTGACCA	
AGTGACGATT	GCCATCCCTT	CTTTAAATGG	TAAGGAGCGA	GAGAAGATTG	TTGAAATCTG
TAACACTACA	GGAGTGACCG	TCAATAATAT	GCCGAGTATT	GAAGACATTA	
TGGCCGGGAA	CATGTCTGTC	AGTGCCTTTC	AGGAAATTGA	CGTAGCAGAC	CTTCTTGGTC
GACCAGAGGT	TGTTTTGGAT	CAGGATGAAT	TGAATCAGTT	TTTCCAAGGG	
AAAACAATCC	TTGTACAGG	AGCAGGTGGC	TCTATCGGTT	CAGAGCTATG	TCGTCAAATT
GCTAAGTTTA	CGCCTAAACG	CTTGTGTGTT	CTTGGACATG	GAGAAAATTC	
AATCTATCTC	ATTCATCGAG	AGTTACTGGA	AAAGTACCAA	GGTAAGATTG	AGTTGGTCCC
TCTCATTGCA	GATATTCAAG	ATAGAGAATT	GATTTTTTAGC	ATAATGGCTG	
AATATCAACC	CGATGTTGTT	TATCATGCTG	CAGCACATAA	GCATGTTTCT	TTGATGGAAT
ATAATCCACA	TGAAGCAGTG	AAGAATAATA	TTTTTGGAAC	GAAGAATGTG	
GCTGAGGCGG	CTAAAACCTG	AAAGGTTGCC	AAATTTGTTA	TGGTTTCAAC	AGATAAAGCT
GTTAATCCAC	CAAATGTCAT	GGGAGCGACT	AAACGTGTTG	CAGAAATGAT	
TGTTACAGGT	TTAAACGAGC	CAGGTCAGAC	TCAATTTGCG	GCAGTCCGGT	TTGGGAATGT
TCTAGGTAGT	CGTGGAAGTG	TTGTTCCGCT	ATTCAAAGAG	CAAAATTAGAA	
AAGGTGGACC	TGTTACGGTT	ACCGACTTTA	GGATGACTCG	TTATTTCTATG	ACGATTCCCTG
AGGCAAGTCT	TTTGGTTATC	CAAGCTGGAC	ATTTGGCAAA	AGGTGGAGAA	
ATATTTGTCT	TGGATATGGG	CGAGCCAGTA	CAATCCTGG	AATTGGCAAG	AAAAGTTATC
TTGTTAAGTG	GACACACAGA	GGAAGAAATC	GGGATTGTAG	AATCTGGAAT	
CAGACCAGGC	GAGAACTCT	ACGAGGAATT	ATTATCAACA	GAAGAACGTG	TCAGCGAACA
GATTCATGAA	AAAATATTTG	TGGGTCGCGT	TACAAATAAG	CAGTCGGACA	
TTGTCAATTC	ATTTATCAAT	GGATTACTCC	AAAAAGATAG	AAATGAATTA	AAAAATATGT
TGATTGAATT	TGCAAAACAA	GAATAAGAAA	GTAAAAAATA	TTTTTACTTT	
CCTAGAGTTT	AAACGATGTT	TAAGTTCTAG	GAAGGTTAGA	ATACCTAATT	AACAACAATA
TTACTATTTA	TTAAGAGTCA	GATAATAGCA	ACTAAGTGCT	ACAAACTATC	
TTTATAATAA	GTATATTTGG	TCAAAAGGGA	GATGTGAAAT	GTATCCAATT	TGTAAACGTA
TTTTAGCAAT	TATTATCTCA	GGGATTGCTA	TTGTTGTTCT	GAGTCCAATT	
TTATTATTGA	TTGCATTGGC	AATTAAATTA	GATTCATAAG	GTCCGGTATT	ATTTAAACAA
AAGCGGGTTG	GTAAAAACAA	GTCATACTTT	ATGATTTATA	AATTCGGTTC	
TATGTACGTT	GACGCACCAA	GTGATATGCC	GACTCATCTA	TTAAAGGATC	CTAAGGCGAT
GATTACCAAG	GTGGCGCGT	TTCTCAGAAA	AACAAGTTTA	GATGAACTGC	
CACAGCTTTT	TAATATTTT	AAAGGTGAAA	TGGCGATTGT	TGGTCCACGC	CCAGCCTTAT
GGAATCAATA	TGACTTAATT	GAAGAGCGAG	ATAAATATGG	TGCAAAATGAT	
ATTCTGCTCTG	GACTAACC	TTGGGCTCAA	ATTAATGGTC	GTGATGAATT	GGAAATTGAT
GAAAAGTCAA	AATTAGATGG	ATATTATGTT	CAAAATATGA	GTCTAGGTTT	
GGATATTAAA	TGTTTCTTAG	GTACATTCTT	CAGTGTAGCC	AGAAGCGAAG	GTGTTGTTGA
AGGTGGAACA	GGGCAGAAAG	GAAAAGGATG	AAATTTTCAG	TATTAATGTC	
GGTCTATGAG	AAAGAAAAAC	CAGAGTTTCT	TAGGGAATCT	TTGGAAAGCA	TCCTTGTC
TCAAACAATG	ATTCCAACGG	AGGTTGTCTT	GGTAGAGGAT	GGGCGACTCA	
ATCAGAGCTT	ATATAGTATT	TTAGAAGAAT	TTAAAAGTCG	ATTTTCATTT	TTTAAACGA
TAGCCTTGGA	AAAGAATTTCG	GGTTTAGGAA	TTGCACTGAA	TGAAGGTTTG	
AAACATTGTA	ATTATGAGTG	GGTTTGCACG	AAATGGATTTC	TGATGATGTT	GCATATACAT
ACACGTTTTG	AAAAGCAAGT	TAACTTTATA	AAACAAAACC	CGACTATAGA	

41/59

TATTGAGATA GATGAGTTCT TAAATTCTAC TAGTGAAATA GTTTCATATA AAAATGTTCC
AAGCCAGCAC GATGAAATAT TAAAGATGGC AAGGCGGGAG AAATCCATGT
GCCACATGAC TGTAATGTTT AAAAAGAAAA GTGTCGAGAG AGCAGGGGGG TATCAAACAC
TTCCGTACGT AGAAGATTAT TTCCTTTGGG TGCGCATGAT TGCTTCAGGA
TCGAAATTTG CAAACATTGA TGAAACACTA GTTCTTGCAC GTGTTGGAAA TGGGATGTTC
AATAGGAGGG GGAACAGAGA ACAAATTAAC AGTTGGACAT TACTAATTGA
ATTTATGTTA GCTCAAGGAA TTGTTACACC ACTAGATGTA TTTATTAATC AAATTTACAT
TAGGGTCTTT GTTTATATGC CAACTTGGAT AAAGAACTC ATTTATGGAA
AAATCTTAAG GAAATAGTAT GATTACAGTA TTGATGGCTA CATATAATGG AAGCCCATT
ATAATAAAAC AGTTAGATTC AATTCGAAAT CAAAGTGAT CAGCAGACAA
AGTTATTATT TGGGATGATT GCTCGACAGA TGATACAATA AAAATAATAA AAGATTATAT
AAAAAAATAT TCTTTGGATT CATGGGTTGT CTCTCAAAAT AAATCTAATC
AGGGGCATTA TCAAACATTT ATAAATTTGA CAAAGTTAGT TCAGGAAGGA ATAGTCTTTT
TTTCAGATCA AGATGATATT TGGGACTGTC ATAAATTTGA GACAATGCTT
CCAATCTTTG ACAGAGAAAA TGTATCAATG GTGTTTTGCA AATCCAGATT GATTGATGAA
AACGGAAATA TTATCAGTAG CCCAGATACT TCGGATAGAA TCAATACGTA
CTCTCTAGA

Fig. 5 cont.

SEQ. ID. NO. 37

F022F0 " F4029260

42/59

AYRQGVRYIV ATSHRRKGMF ETPEKVIMTN FLQFKDAVAE VYPEIRLCYG AELYYSKDIL
SKLEKKKVPT LNGSRYILLE FSSDTPWKEI QEAVNEVTLL GLTPVLAHIE
RYDALAFHAE RVEELIDKGC YTQVNSNHVL KPTLIGDRAK EFKKRTRYFL EQDLVHCVAS
DMHNLSSRPP FMREAYKLLT EEFGKDKAKA LLKKNPLMLL KNQAI

Fig. 5 cont.

CPS9D

SEQ. ID. NO. 38

"SEQ. ID. NO. 38"

43/59

MDLGTVTDKL	LERNKRIL	VCMDTCLLIV	SMILSRFLD	VIIDIPDERF	ILAVLFVSIL
YLILSFRLKV	FSLITRYTGY	QSYVKIGLSL	ISAHSLFLII	SMVLWQAFSY	
RFILVSLFLS	YVMLITPRIV	WKVLHETRKN	AIRKKDSPLR	ILVVGAGDGG	NIFINTVKDR
KLNFEIVGIV	DRDPNKLGTG	IRTAKVLGNR	NDIPRLVEEL	AVDQVTIAIP	
SLNGKEREKI	VEICNTTGV	VNNMPSIEDI	MAGNMSVSAF	QEIDVADLLG	RPEVVLDQDE
LNQFFQGKTI	LVTGAGGSIG	SELCRQIAKF	TPKRLLLLGH	GENSIYLIHR	
ELLEKYQGKI	ELVPLIADIQ	DRELIFSIMA	EYQPDVVYHA	AAHKHVPLME	YNPHEAVKNN
IFGTKNVAEA	AKTAKVAKFV	MVSTDKAVNP	PNVMGATKRV	AEMIVTGLNE	
PGQTQFAAVR	FGNVLGSRG	VVPLFKEQIR	KGGPVTVTDF	RMTRYFMTIP	EASRLVIQAG
HLAKGGEIFV	LDMGEPVQIL	ELARKVILLS	GHTEREIGIV	ESGIRPGEKL	
YEELLSTEER	VSEQIHEKIF	VGRVTNKQSD	IVNSFINGLL	QKDRNELKNM	LIEFAKQE

Fig. 5 cont.

CPS9E

SEQ. ID. NO. 39

T022T0 T4029260

PCT/NL99/00460

CPS9F

SEQ. ID. NO. 40

Parameter	Value	Unit
1.1	1.0	
1.2	1.0	
1.3	1.0	
1.4	1.0	
1.5	1.0	
1.6	1.0	
1.7	1.0	
1.8	1.0	
1.9	1.0	
2.0	1.0	
2.1	1.0	
2.2	1.0	
2.3	1.0	
2.4	1.0	
2.5	1.0	
2.6	1.0	
2.7	1.0	
2.8	1.0	
2.9	1.0	
3.0	1.0	
3.1	1.0	
3.2	1.0	
3.3	1.0	
3.4	1.0	
3.5	1.0	
3.6	1.0	
3.7	1.0	
3.8	1.0	
3.9	1.0	
4.0	1.0	
4.1	1.0	
4.2	1.0	
4.3	1.0	
4.4	1.0	
4.5	1.0	
4.6	1.0	
4.7	1.0	
4.8	1.0	
4.9	1.0	
5.0	1.0	
5.1	1.0	
5.2	1.0	
5.3	1.0	
5.4	1.0	
5.5	1.0	
5.6	1.0	
5.7	1.0	
5.8	1.0	
5.9	1.0	
6.0	1.0	
6.1	1.0	
6.2	1.0	
6.3	1.0	
6.4	1.0	
6.5	1.0	
6.6	1.0	
6.7	1.0	
6.8	1.0	
6.9	1.0	
7.0	1.0	
7.1	1.0	
7.2	1.0	
7.3	1.0	
7.4	1.0	
7.5	1.0	
7.6	1.0	
7.7	1.0	
7.8	1.0	
7.9	1.0	
8.0	1.0	
8.1	1.0	
8.2	1.0	
8.3	1.0	
8.4	1.0	
8.5	1.0	
8.6	1.0	
8.7	1.0	
8.8	1.0	
8.9	1.0	
9.0	1.0	
9.1	1.0	
9.2	1.0	
9.3	1.0	
9.4	1.0	
9.5	1.0	
9.6	1.0	
9.7	1.0	
9.8	1.0	
9.9	1.0	
10.0	1.0	

45/59

MKFSVLMSVY EKEKPEFLRE SLESILVNQT MIPTEVVLE DGPLNQSLYS ILEEFKSRFS
FFKTIALEKN SGLGIALNEG LKHCNYEWVC TKWILMLHI HTRFEKQVNF
IKQNPTIDIE IDEFLNSTSE IVSHKNVPTQ HDEILKMARR EKSMCHMTVM FKKKSVERAG
GYQTLPLYVED YFLWVRMIAS GSKFANIDET LVLARVGNGM FNRRGNREQI
NSWTLLIEFM LAQGIVTPLD VFINQIYIRV FVYMPTWIKK LIYGKILRK

Fig. 5 cont.

CPS9G

SEQ. ID. NO. 41

T026T0 "T40/50

46/59
MITVLMATYN GSPFIKQLD SIRNQSVSAD KVIIWDDCST DDTIKIHKDY IKKYSLDSWV
VSQNKSNQGH YQTFINLTKL VQEGIVFFSD QDDIWDCHKI ETMLPIFDRE
NVSMVFCKSR LIDENGNIIS SPDTSDRINT YSL

Fig. 5 cont.

CPS9H

SEQ. ID. NO. 42

FOEETQ T4029260

CTGCAGCACA	TAAGCATGTT	CCATTGATGG	AATATAATCC	ACATGAAGCA	GTGAAGAATA
ATATTTTTTG	AACGAAGAAT	GTGGCTGAGG	CGGCTAAAAC	TGCAAAGGTT	
GCCAAATTTG	TTATGGTTTC	AACAGATAAA	GCTGTTAATC	CGCCAAATGT	CATGGGAGCG
ACTAAACGTG	TTGCAGAAAT	GATTGTAACA	GGTTTAAACG	AGCCAGGTCA	
GACTCAATTT	GCGGCAGTCC	GTTTTGGGAA	TGTTCTAGGT	AGTCGTGGAA	GTGTTGTTCC
GCTATTCAAA	GAGCAAATTA	GAAAAGGTGG	ACCTGTTACG	GTTACCGACT	
TTAGGATGAC	TCGTTATTTT	ATGACGATTC	CTGAGGCAAG	TCGTTTGGTT	ATCCAAGCTG
GACATTTGGC	AAAAGGTGGA	GAAATCTTTG	TCTTGGATAT	GGGTGAGCCA	
GTACAAATCC	TGGAATTGGC	AAGAAAAGTT	ATCTTGTTAA	GCGGACATAC	AGAGGAAGAA
ATCGGGATTG	TAGAATCTGG	AATCAGACCA	GGCGAGAAAC	TCTACGAGGA	
ATTGTTATCA	ACAGAAGAAC	GTGTCAAGCA	ACAGATTCAT	GAAAAAATAT	TTGTGGGTCTG
CGTTACAAAT	AAGCAGTCGG	ACATTGTCAA	TTCATTTATC	AATGGATTAC	
TCCAAAAAGA	TAGAAATGAA	TTAAAAGATA	TGTTGATTGA	ATTTGCAAAA	CAAGAATAAG
AAAGTAAAAA	ATATTTTTAC	TTTCCTAGAG	TTTAAACGAT	GTTTAAGTTC	
TAGGAAGGTT	GGAATTGCTT	TCGTGGAGGT	GATAGATAGA	AACCTATATA	TTGTAGAGAAG
AAAGGATATT	AAACTAAAGG	TGAATCGGAA	CATAAAGTTT	AGATAGAGTT	
GGTATTTAAT	GCCAAACAGG	TGAATGCAAC	CTCTCGCTCG	TTACTAAGCA	GGAGATAGTA
AAGTTGCTTG	AAAGAGAGTT	TGTTAATCAG	TATAAGTAGG	CTAAAGTGAG	
AATATATATC	TATTATTATC	GGTAATGATA	CTATTATTGA	GAATTATTGT	AGTGGGGATA
AAAATAAATT	TTGGTGATTT	TATCGTCCGA	CTTAAAGGTG	GGTTAAAAAA	
GTACTTATAT	TCTTTTAGAA	TTGATGAAAA	ATATGGGGGA	ATATAATATT	TATAGGAGAT
ACGATGACTA	GAGTAGAGTT	GATTACTAGA	GAATTTTTTA	AGAAGAATGA	
AGCAACCACT	AAATATTTTC	AGAAGATAGA	ATCAAGAAGA	GGTGAATTAT	TTATTAAATT
CTTTATGGAT	AAGTTACTTG	CGCTTATCCT	ATTATTGCTA	TTATCCCCAG	
TAATCATTAT	ATTAGCTATT	TGGATAAAAT	TAGATAGTAA	GGGGCCAATT	TTTTATCGCC
AAGAACGTGT	TACGAGATAT	GGTCGAATTT	TTAGAATATT	TAAGTTTAGA	
ACAATGATTT	CTGATGCGGA	TAAAGTCGGA	AGTCTTGTCA	CAGTCGGTCA	AGATAATCGT
ATTACGAAAG	TCGGTCACAT	TATCAGAAAA	TATCGGCTGG	ACGAAGTGCC	
CCAACTTTT	AATGTTTTTA	TGGGGGATAT	GAGCTTTGTA	GGTGTAAGAC	CAGAAGTACA
AAAATATGTA	AATCAGTATA	CTGATGAAAT	GTTTGCGACG	TTACTTTTAC	
CTGCAGGAAT	TACTTCACCA	GCGAGTATTG	CATATAAGGA	TGAAGATATT	GTTTTAGAAG
AATATTGTTC	TCAAGGCTAT	AGTCCTGATG	AAGCATATGT	TCAAAAAGTA	
TTACCAGAAA	AAATGAAGTA	CAATTTGGAA	TATATCAGAA	ACTTTGGAAT	TATTTCTGAT
TTTAAAGTAA	TGATTGATAC	AGTAATTTAA	GTAATAAAAT	AGGAGATTAA	
AATGACAAAA	AGACAAAAA	TTCCATTTTC	ACCACCAGAT	ATTACCCAAG	CTGAAATTGA
TGAAGTTATT	GACACACTAA	AATCTGGTTG	GATTACAACA	GGACCAAGA	
CAAAAGAGCT	AGAACGTCGG	CTATCAGTAT	TTACAGGAAC	CAATAAAACT	GTGTGTTTAA
ATTCTGCTAC	TGCAGGATTG	GAAGTAGTCT	TACGAATTCT	TGGTGTGGA	
CCCGGAGATG	AAGTTATTGT	TCCTGCTATG	ACCTATACTG	CCTCATGTAG	TGTCATTACT
CATGTAGGAG	CAACTCCTGT	GATGGTTGAT	ATTCAAAAAA	ACAGCTTTGA	
GATGGAATAT	GATGCTTTGG	AAAAAGCGAT	TACTCCGAAA	ACAAAAGTTA	TCATTCTCTG
TGATCTAGCT	GGTATTCCTT	GTGATTATGA	TAAGATTTAT	ACCATCGTAG	
AAAACAAACG	CTCTTTGTAT	GTTGCTTCTG	ATAATAAATG	GCAGAAACTT	TTTGGGCGAG
TTATTATCCT	ATCTGATAGT	GCACACTCAC	TAGGTGCTAG	TTATAAGGGA	
AAACCAGCGG	GTTCCCTAGC	AGATTTTACC	TCATTTTCTT	TCCATGCAGT	TAAGAATTTT
ACAACTGCTG	AAGGAGGTAG	TGTGACATGG	AGATCACATC	CTGATTTGGA	
TGACGAAGAG	ATGTATAAAG	AGTTTCAGAT	TTACTCTCTT	CATGGTCAGA	CAAAGGATGC
ATTAGCTAAG	ACACAATTAG	GGTCATGGGA	ATATGACATT	GTTATTCTCTG	
GTTACAAGTG	TAATATGACA	GATATTATGG	CAGGTATCGG	TCTTGTCGAA	TTAGAACGTT
ACCATCTTTT	GTTGAATCGT	CGCAGAGAAA	TCATTGAGAA	ATACAATGCT	
GGCTTTGAGG	GGACTTCGAT	TAAGCCGTTG	GTACACCTGA	CGGAAGATAA	ACAAATCGTCT
ATGCACTTGT	ATATCACGCA	TCTACAAGGC	TATACTTTAG	AACAACGAAA	
TGAAGTCATT	CAAAAAATGG	CTGAAGCAGG	TATTGCGTGC	AATGTTCACT	ACAAACCATT
ACCTCTTCTC	ACAGCTTACA	AGAATCTTGG	TTTTGAAATG	AAAGATTTTC	
CGAATGCCTA	TCAGTATTTT	GAAAATGAAG	TTTACTGCCC	TCTTCATACC	AACTTGAGTG
ATGAAGATGT	GGAGTATGTG	ATAGAAATGT	TTTTAAAAAT	TGTTAGTAGA	
GATTAGTTAT	TTTGGAAAGGA	GATATGGTGG	AAAGAGATAT	GGTGGAAAGA	GACACGTTGG
TATCTATAAT	AATGCCCTCG	TGGAATACAG	CTAAGTATAT	ATCTGAATCA	
ATCCAGTCAG	TGTTGGACCA	AACACACCAA	AATTGGGAAC	TTATAATCGT	TGATGATTGT
TCTAATGACG	AAACTGAAAA	AGTTGTTTCG	CATTTCAAAG	ATTCAAGAAT	

DNA Serotype 7

Fig. 6

48/59

AAAGTTTTTT AAAAATTCGA ATAATTTAGG GGCAGCTCTA ACACGAAATA AGGCACTAAG
AAAAGCTAGA GGTAGGTGGA TTGCGTTCTT GGATTCAGAT GATTTATGGC
ACCCGAGTAA GCTAGAAAAA CAGCTTGAAT TTATGAAAAA TAATGGATAT TCATTTACTT
ATCACAATTT TGAAAAGATT GATGAATCTA GTCAGTCTTT ACGTGTCTG
GTGTCAGGAC CAGCAATTGT GACTAGAAAA ATGATGTACA ATTACGGCTA TCCAGGGTGT
TTGACTTTCA TGTATGATGC AGACAAAATG GGTTTAATTC AGATAAAAGA
TATAAAGAAA AATAACGATT ATGCGATATT ACTTCAATTG TGTAAGAAGT ATGACTGTTA
TCTTTTAAAT GAAAGTTTAG CTTCGTATCG AATTAGAAAA AA

Fig. 6 cont.

SEQ. ID. NO. 43

F022F0 " F4029250

WO 00/05378

49/59

PCT/NL99/00460

AAHKHVPLME YNPHEAVKNN IFGTKNVAEA AKTAKVAKFV MVSTDKAVNP PNVMGATKRV
AEMIIVTGLNE PGQTQFAAVR FGNVLGSRGS VVPLFKEQIR KGGPVTVTDF
RMTRYFMTIP EASRLVIQAG HLAGGGEIFV LDMGEPVQIL ELARKVILLS GHTEEEIGIV
ESGIRPGEKL YEELLSTEER VSEQIHEKIF VGRVTNKQSD IVNSFINGLL
QKDRNELKDM LIEFAKQE

Fig. 6 cont.

CPS7E

SEQ. ID. NO. 44

402220 402220

PCT/NL99/00460

CPS7F

Figure 1 consists of 12 bar charts, labeled (a) through (l), each representing a different demographic or attitudinal variable. Each chart compares the percentage of respondents for that variable in 1995 (represented by white bars) and 2000 (represented by grey bars). The y-axis for all charts represents the percentage of respondents, ranging from 0 to 100. The x-axis for each chart lists the categories for that variable.

- (a) Age:** Categories are 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, 85+. Percentages generally decrease with age, with the 18-24 group being the largest in both years.
- (b) Sex:** Categories are Male and Female. Male respondents consistently make up a larger percentage than female respondents.
- (c) Education:** Categories are Less than high school, High school, Some college, College, Graduate school. The percentage of respondents with a college degree or higher has increased significantly from 1995 to 2000.
- (d) Income:** Categories are Less than \$10,000, \$10,000-\$19,999, \$20,000-\$29,999, \$30,000-\$39,999, \$40,000-\$49,999, \$50,000-\$59,999, \$60,000-\$69,999, \$70,000-\$79,999, \$80,000-\$89,999, \$90,000-\$99,999, \$100,000+. The percentage of respondents in the highest income bracket (\$100,000+) has increased.
- (e) Employment:** Categories are Full-time, Part-time, Unemployed. The percentage of full-time employment has increased, while the percentage of unemployment has decreased.
- (f) Home ownership:** Categories are Own, Rent, Other. The percentage of respondents who own their home has increased.
- (g) Marital status:** Categories are Married, Single, Divorced, Widowed. The percentage of married respondents has increased.
- (h) Religion:** Categories are Protestant, Catholic, Jewish, Muslim, Other. Protestant and Catholic respondents are the majority in both years.
- (i) Political affiliation:** Categories are Republican, Democrat, Independent. The percentage of Republican respondents has decreased, while the percentage of Democrat respondents has increased.
- (j) Party affiliation:** Categories are Conservative, Moderate, Liberal. The percentage of liberal respondents has increased.
- (k) Attitude towards the environment:** Categories are Very important, Important, Not important. The percentage of respondents who consider the environment very important has increased.
- (l) Attitude towards the government:** Categories are Very satisfied, Satisfied, Dissatisfied, Very dissatisfied. The percentage of respondents who are satisfied with the government has decreased.

MTKRQNIPFS PPDITQAEID EVIDTLKSGW ITTGPKTKEL ERRLSVFTGT NKTVCCLNSAT
AGLELVLRLIL GVGPGEDEVIV PAMTYTASCS VITHVGATPV MVDIQKNSFE
MEYDALEKAI TPCTKVIIIPV DLAGIPCDYD KIYTIVENKR SLYVASDNKW QKLFGRVIIL
SDSAHSLGAS YKGKPAGSLA DFTSFSFHAV KNFTTAEGGS VTWRSHPDLD
DEEMYKEFQI YSLHGQTKDA LAKTQLGSWE YDIVIPGYKC NMTDIMAGIG LVQLERYPSL
LNRRREIEEK YNAGFEGTSI KPLVHLTEDK QSSMHLYITH LQGYTLEQRN
EVIQMAEAG IACNVHYKPL PLLTAYKNLG FEMKDFPNAY QYFENEVTLF LHTNLSDEDV
EYVIEMFLKI VSRD

Fig. 6 cont.

CPS7G

SEQ. ID. NO. 46

09767041.012901

52/59

MVERDMVERD TLVSIIMPSW NTAKYISESI QSVLDQTHQN WELIIVDDCS NDETEKVVSH
FKDSRIKFFK NSNNLGAALT RNKALRKARG RWIAFLDSDD LWHPSKLEKQ
LEFMKNNGYS FTYHNFEEKID ESSQSLRVLV SGPAIVTRKM MYNYGYPGCL TEMYDADKMG
LIQIKDIKKN NDYAILLQLC KKYDCYLLNE SLASYRIRK

Fig. 6 cont.

CPS7H

SEQ. ID. NO. 47

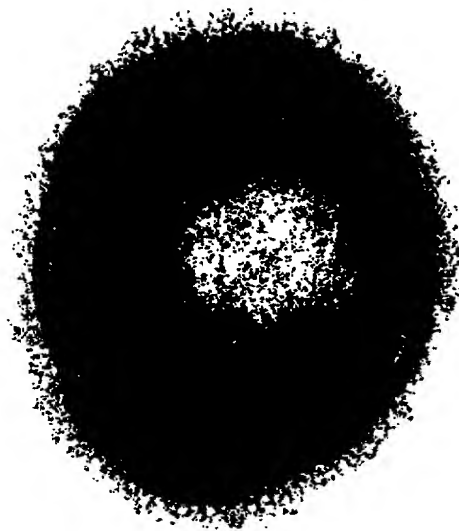
F02270" F4029260

Cps2K
(SEQ. ID. NO. 52)

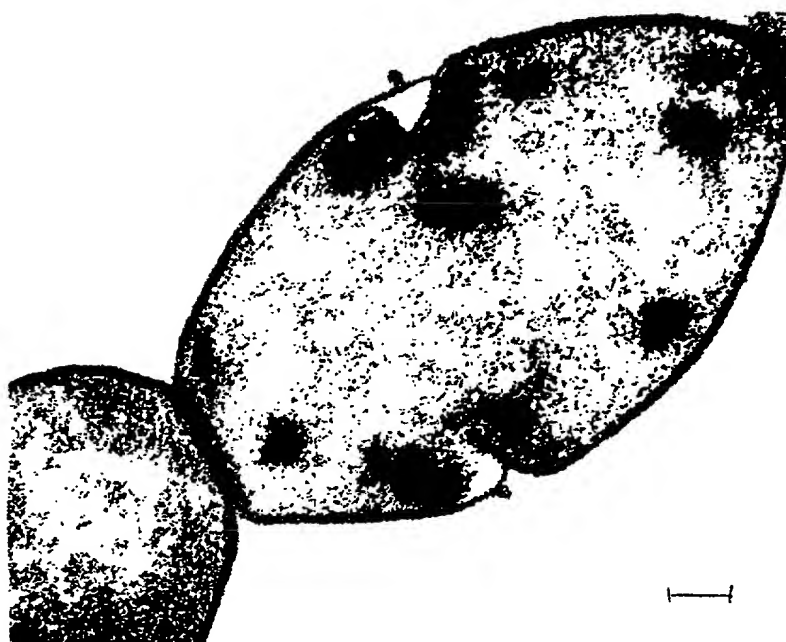
Figure 1 consists of 12 sub-graphs labeled (a) through (l), each showing the growth of *E. coli* O157:H7 in ground beef under different treatment conditions. The y-axis for all graphs is \log_{10} CFU/g, ranging from 0 to 10. The x-axis is time in hours, ranging from 0 to 120. The graphs show various growth curves, with some treatments showing significant inhibition of growth compared to the control.

- (a) Control: Shows a steady increase in bacterial count from approximately 10^1 to 10^8 CFU/g over 120 hours.
- (b) Salt: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (c) Acetic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (d) Lactic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (e) Citric acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (f) Malic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (g) Succinic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (h) Tartaric acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (i) Fumaric acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (j) Malic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (k) Citric acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (l) Control: Shows a steady increase in bacterial count from approximately 10^1 to 10^8 CFU/g over 120 hours.

A



B



C



Fig. 8

PCT/NL99/00460

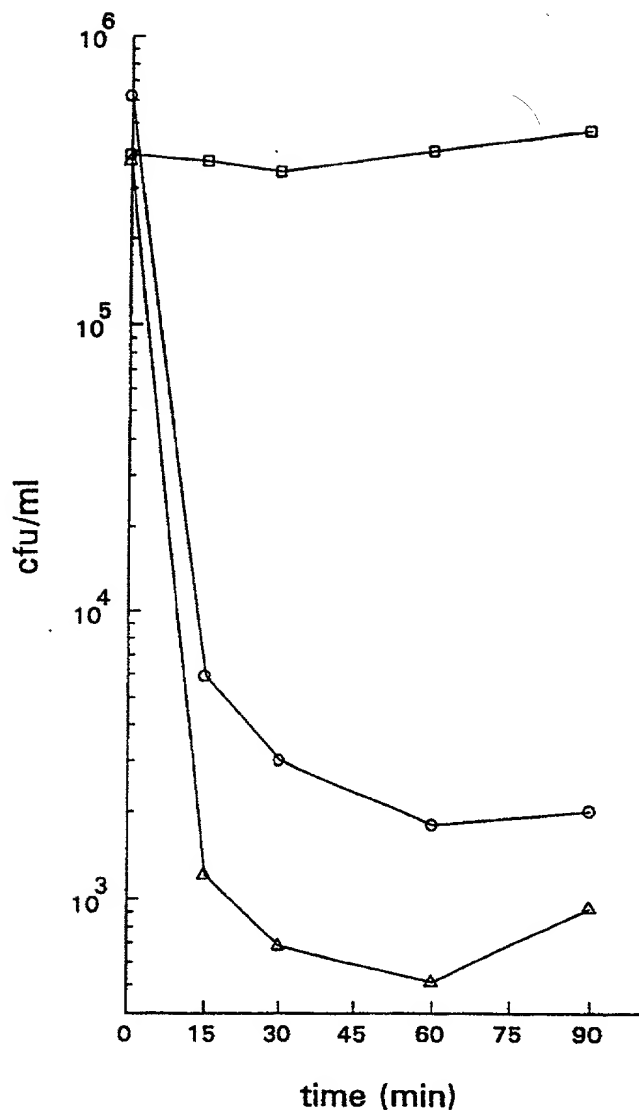


Fig. 9A

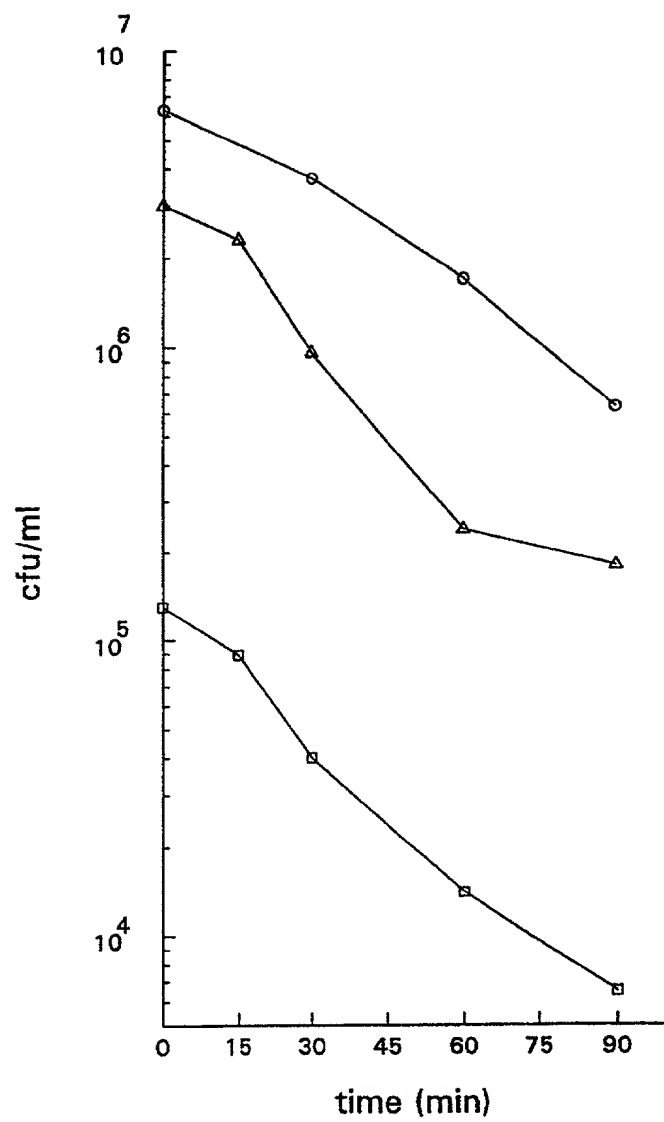


Fig. 9B

(1)	10508	AAGGGCACCT	CTATAAACTC	CCAAAATTGC	GAATTTGGAG	TTACGAAAGC	CTTGTTAAAT	CAA-CATTTTA	AATTTTAGAA	AATTAGTTTT	TAGAGCTCCC	10607	SEQ. ID. NO. 48
(2)	16985	GGGGCACCT	CTATAAATTC	CCAAAATTGC	GAATTTGGAG	TTACGAAAGC	CTTGTTAAAT	CAA-CATCTTA	AATTTTAGAA	AATTAGTTTT	TAGAGGTCCC	17084	SEQ. ID. NO. 49
(3)	19803	AAGGGCACCT	CTATAAACTC	CCAAAATTGC	GAATTTGGAG	TTACGAAAGC	CTTGTTAAAT	CAAAACATTTTA	AATTTTAGAA	AATTAGTTTT	TAGAGGTCCC	19903	SEQ. ID. NO. 50

Fig. 10

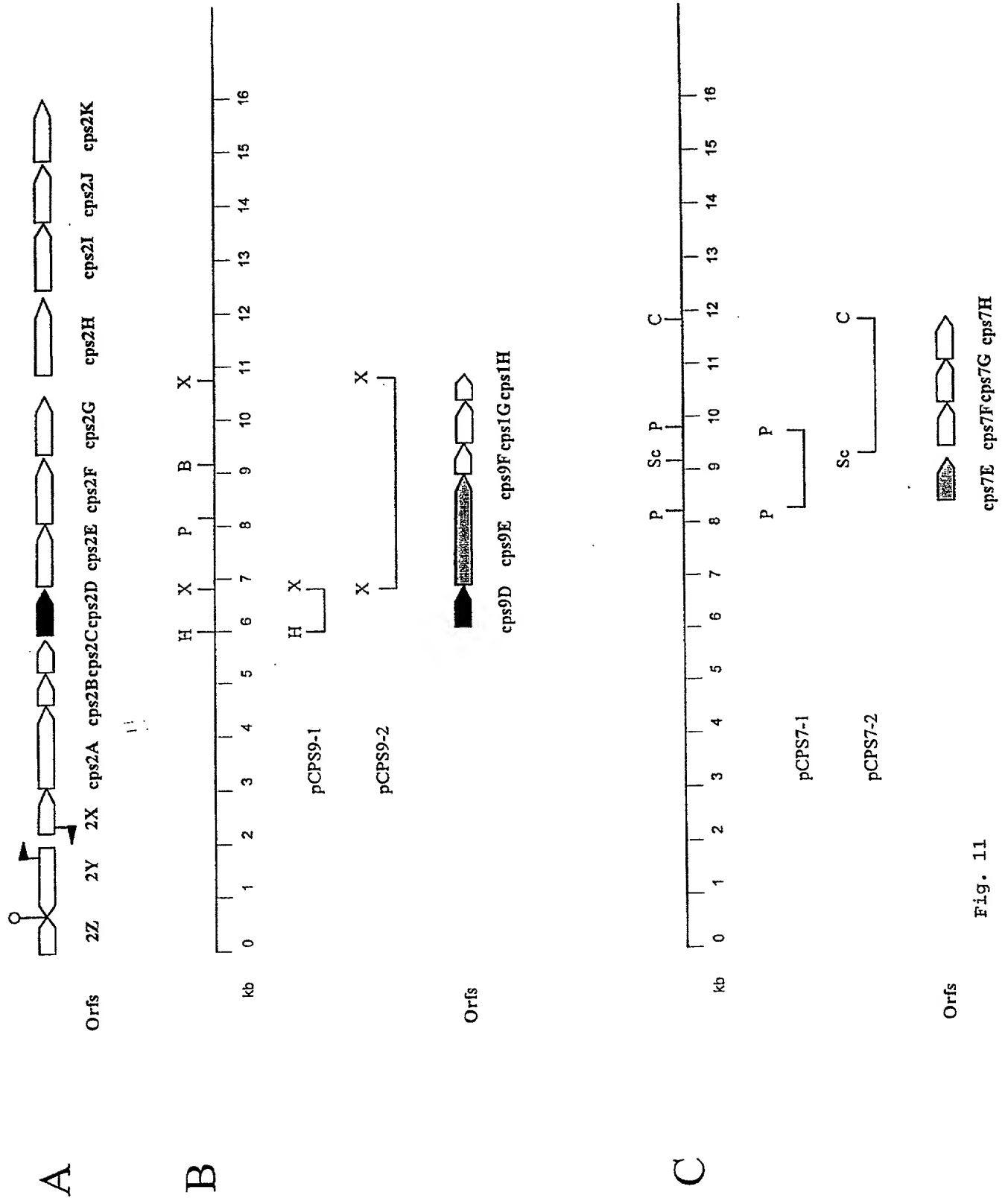


Fig. 11

59/59

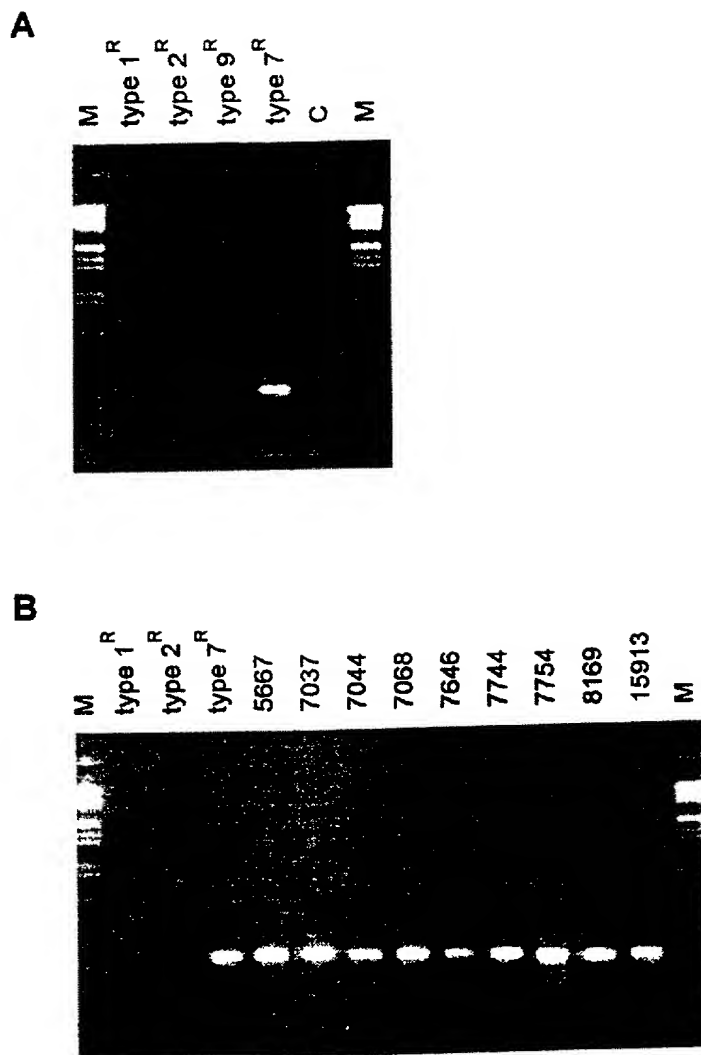


Fig. 12